

BIRD

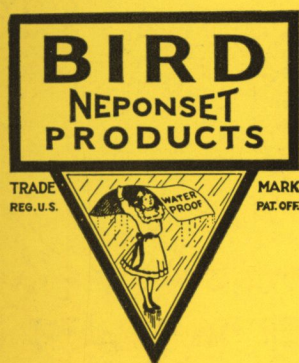
BUILT-UP ROOFING



TRADE
REG. U.S.

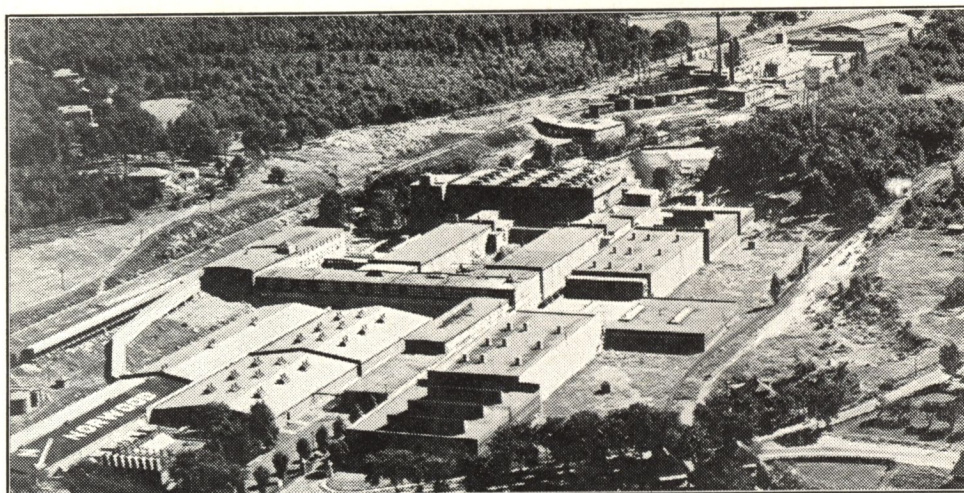


MARK
PAT. OFF.



The organization making **BIRD BUILDING PRODUCTS**

Established 1795 . . . when Washington was President



FOUNDED in 1795, the continuous success of Bird & Son, inc., has proved the sound principles upon which Bird makes and distributes its products. A long time in business means much when demonstrated stability is coupled with a quality line of materials.

This high quality of products has been secured and maintained by constant research by the Bird laboratories and the rigid control of production exercised in the mills. This unceasing research and experimentation has resulted in the introduction of many outstanding products such as Thick Butt Shingles, Shatter Resistant Coating, Quick Setting Lap Cement, and numerous other improvements.

While this book is devoted to Bird Built-up Roofs, it is of interest to know that Bird manufactures and distributes Asphalt Mineral Surfaced Shingles and Sidings, Roll Roofings, Insulating Materials and Wallboards, Neponset Felt Base Rugs and Floor Coverings, Shipping Cases and Cartons, Flower Pots and Special Papers.

For Index to Specifications, see page 27.

BIRD & SON, inc.
EAST WALPOLE, Mass.

NEW YORK OFFICE
295 FIFTH AVENUE
NEW YORK, N. Y.

CHICAGO OFFICE
and PLANT
1472 WEST 76th STREET
CHICAGO, ILLINOIS

Copyright 1935
Bird & Son, inc.

ROOFING MANUAL

ON BIRD BUILT-UP ROOFINGS AND FLASHINGS

*Complete Specifications for BIRD BUILT-UP
Bonded Roofs for all types of service . . .*

BIRD BUILT-UP ROOFINGS *for all purposes*

There is a Bird Built-Up Roof for every type of flat roof construction. In the data and specifications given on the following pages you will find the answer to positive roof protection. The mineral surfacing protecting the waterproofing elements is one of the many specific features of Bird Built-Up Roofs that provide longer life.

ASPHALT *and* TAR ROOF TYPES

Bird Built-Up Roofing Specifications are designed to use either Bird Roofing Pitch or Bird Roofing Asphalt as desired by the Architect to meet particular conditions or preferences. Either pitch or asphalt may be used as the waterproofing element for flat roofs. For steep roofs, or those having a slope of over two inches to the foot, asphalt should be used on account of its high melting point and stability. Special high melting type asphalts are produced by Bird to be used on steep roofs. These are of the very highest quality and assure long life for the roof.

BONDED ROOFS

The satisfaction that any roof will give depends upon two important factors: First, the materials must be suitable for the service to be rendered. Second, and equally important, these materials must be correctly applied. When both these conditions are met, satisfactory results are assured. Because Bird & Son, inc., has carefully covered these conditions, they are prepared to offer bonded roofs for ten, fifteen or twenty years' service.

BIRD BONDED ROOFS

Installed only by accredited Roofers

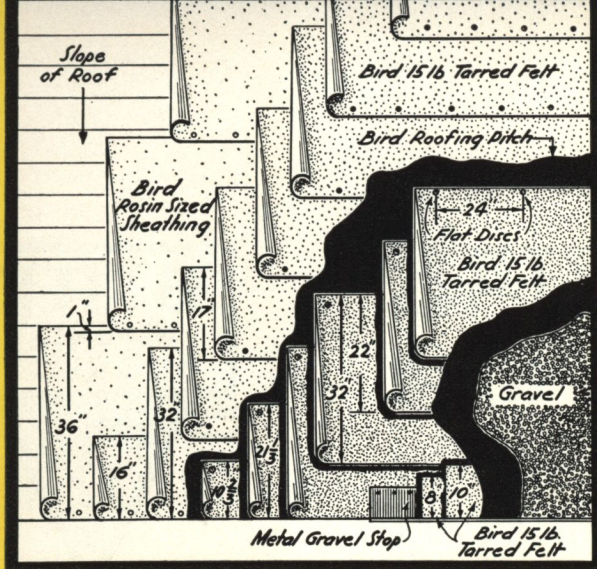
A properly applied roof is one in which all of the elements entering into its make-up are bonded together into one solid mass. This perfect application results only through experienced workmanship. Such workmanship is made possible on Bird Bonded Roofs because of the careful selection of only accredited roofers of unquestioned dependability applying Bird Roofs.



BIRD

Built-up

ROOFINGS



BIRD 20 YEAR BUILT-UP ROOF, PITCH AND GRAVEL OR SLAG Over Wood or Precast Gypsum Decks Slope 0" to 2" in 1'-0"

SPECIFICATION NO. 601—TYPE 515-TW

BILL OF MATERIALS PER 100 SQUARE FEET

Rosin Sized Paper—1 layer Bird Rosin Sized Paper	6 lbs.
Tarred Felt—5 layers Bird 15 lb. Tarred Felt	78 lbs.
Pitch—Bird Roofing Pitch	150 lbs.
Nails and Discs—1" barbed nails for wood or 1½" cut nails for gypsum, through flat tinned discs	
Surfacing—Gravel	400 lbs.
Slag	300 lbs.

Work Included

The work proposed under this specification shall include all labor, material, equipment and services necessary for, and relevant to, the installation of Bird Specification No. (), Type () Built-up Roof and Bird Flashing (state type) to (State in detail the surfaces to be covered).

Preliminary Work by Others

The preparation of the roof deck, adjoining vertical surfaces and metal construction (unless specified in Work Included) is *not* a part of the Roofing Contract but will be installed and furnished by others and shall include the following work:

- Roof Construction—Including cants, coves or fillets, shall be properly graded to conduct all water into gutters and roof drains, leaving all surfaces smooth and clean, in a satisfactory condition to receive roofing.
- Vertical Wall Construction—Including parapet walls, curbs, etc. Non-combustible walls (brick excepted) which are to receive Bird Flashing shall be provided with a nailing strip centered five (5) ins. above roof. Curbs of similar construction shall be provided with a nailing strip at top. (Where Bird Flashings are to extend through walls or under coping, walls will be built to proper height and left ready to receive flashing.)
- Metal Construction—Including roof drains, sheet metal flanges required at pipes, vents, conductor heads or other openings through roof, etc.

Inspection of Preliminary Work

The Roofing Contractor shall examine all surfaces on which or against which his work is to be applied and shall notify the Architect or General Contractor if for any reason there are defects which he considers detrimental to the installation of his materials. He shall see to it that all defects are corrected, all surfaces properly sloped to drains, etc., and all roof surfaces clean and dry before installing his materials. Application of roofing by Roofing Contractor shall be an acceptance of surfaces.

Materials

All Roofing Materials shall be as manufactured by Bird & Son, inc., and delivered to the job in the original packages, bearing the manufacturer's labels.

Rosin Sized Sheathing Paper—Shall be Bird Rosin Sized Sheathing Paper, thirty-six (36) ins. wide, weighing not less than six (6) lbs. per one hundred (100) sq. ft.

Felt—Shall be Bird 15 lb. Tarred Felt thirty-two (32) ins. wide weighing approximately 15 lbs. per one hundred (100) sq. ft.

Pitch—Shall be Bird Roofing Pitch and shall not be heated above three hundred seventy-five (375) degrees Fahrenheit.

Gravel or Slag—Shall be dry and free from dirt and range from one-quarter (¼) to five-eighths (⅝) in. in size.

Nails—For wood or wooden nailing strips, shall be one (1) in. barbed nails driven through flat metal discs (or approved large head roofing nails). For gypsum or other composition decks, shall be one and one-half (1½) in. cut nails driven through flat metal discs.

Installation

- Entire roof deck shall be covered with one (1) layer of Sheathing Paper, lapping sheets not less than one (1) in.
- Two (2) plies of Bird 15 lb. Tarred Felt shall be laid dry over the Sheathing Paper, lapped seventeen (17) ins. and nailed often enough to hold sheets in place.
- Three (3) additional plies of Bird 15 lb. Tarred Felt shall be laid over entire surface, lapped twenty-two (22) ins. and each sheet embedded its full width in Bird Roofing Pitch. Each sheet shall be nailed along upper edge with barbed nails driven through flat tinned discs spaced not more than two (2) ft. on centers.
- A uniform coating of Bird Roofing Pitch shall be poured over the entire surface, using not less than sixty (60) lbs. per 100 sq. ft., into which, while hot, shall be embedded not less than four hundred (400) lbs. of gravel or three hundred (300) lbs. of slag per 100 sq. ft.

All Felts shall be laid without wrinkles or buckles, and be turned up two (2) ins. on, but not sealed to, all vertical surfaces.

Flashing

(Copy from Bird Flashing Specifications.)

Bond

If desired, where Bird & Son, inc., inspection is available, the following may be added for roofs of fifty or more squares:

The Roofing Contractor shall be approved by Bird & Son, inc., and shall furnish a Bird Twenty-Year Guarantee Bond to cover the roofing applied under this contract.

BIRD 20-YEAR BUILT-UP ROOF, ASPHALT AND GRAVEL (SLAG) Over Wood or Precast Gypsum Decks, Slope ¼" to 3" in 1'-0"

Bird Specification No. 101—Type 515-AW

The construction for this roof is identical with Specification No. 601, with changes under "Installation" as follows:

- Omit item No. 1 entirely.
- Two (2) plies of Bird 15 lb. Asphalt Felt 36 ins. wide shall be laid dry over entire roof deck, lapped nineteen (19) ins. and nailed in two (2) staggered parallel rows, three-quarters (¾)

in. and eight and one-half (8½) ins. above the lower edge, and spaced nine (9) ins. center to center.

- Three (3) additional plies of Bird 15 lb. Asphalt Felt 36 ins. wide shall be laid over entire surface, lapped twenty-five (25) ins. and each sheet embedded its full width in Bird Roofing Asphalt No. 16.
- Substitute Bird Roofing Asphalt No. 16 for Bird Roofing Pitch. (Balance of specification remains the same.)

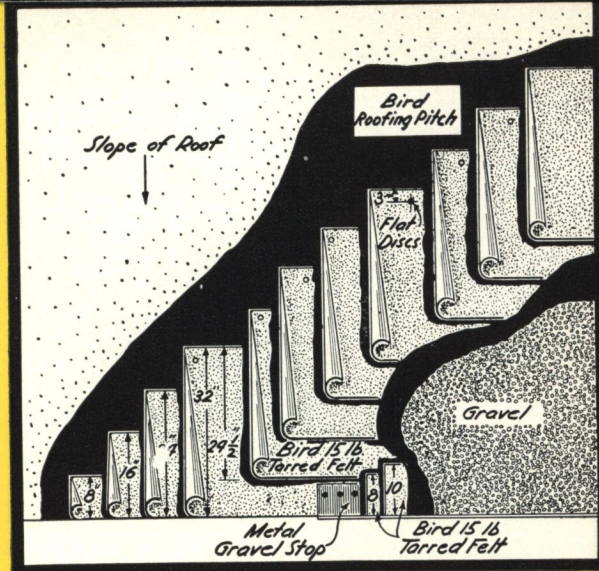
BIRD 20 YEAR BUILT-UP ROOF, PITCH AND GRAVEL OR SLAG

Over Poured Concrete, Gypsum Decks,
or Bird Roof Insulator
Slope 0" to 2" in 1'-0"

SPECIFICATION NO. 602—TYPE 415-TC

BILL OF MATERIALS PER 100 SQUARE FEET

Tarred Felt—4 layers Bird 15 lb. Tarred Felt	62 lbs.
Pitch—Bird Roofing Pitch	180 lbs.
Nails and Discs—1" barbed nails for wood nailing strips or 1½" cut nails for other materials, through flat tinned discs.	
Surfacing—Gravel	400 lbs.
Slag	300 lbs.



Work Included

The work proposed under this specification shall include all labor, material, equipment and services necessary for, and relevant to, the installation of Bird Specification No. (), Type () Built-up Roof and Bird Flashing (state type) to (state in detail the surfaces to be covered).

Preliminary Work by Others

The preparation of the roof deck, adjoining vertical surfaces and metal construction (unless specified in Work Included) is *not* a part of the Roofing Contract but will be installed and furnished by others and shall include the following work:

- Roof Construction—Including eaves, coves or fillets, shall be properly graded to conduct all water into gutters and roof drains, leaving all surfaces smooth and clean, in a satisfactory condition to receive roofing.
- Vertical Wall Construction—Including parapet walls, curbs, etc. Non-combustible walls (brick excepted) which are to receive Bird Flashing shall be provided with a nailing strip centered five (5) ins. above roof. Curbs of similar construction shall be provided with a nailing strip at top. (Where Bird Flashings are to extend through walls or under coping, walls will be built to proper height and left ready to receive flashing.)
- Metal Construction—Including roof drains, sheet metal flanges required at pipes, vents, conductor heads or other openings through roof, etc.

Inspection of Preliminary Work

The Roofing Contractor shall examine all surfaces on which or against which his work is to be applied and shall notify the Architect or General Contractor if for any reason there are defects which he considers detrimental to the installation of his materials. He shall see to it that all defects are corrected, all surfaces properly sloped to drains, etc., and all roof surfaces clean and dry before installing his materials. Application of roofing by Roofing Contractor shall be an acceptance of surfaces.

Materials

All Roofing Materials shall be as manufactured by Bird & Son, inc., and delivered to the job in the original packages, bearing the manufacturer's labels.

BIRD 20-YEAR BUILT-UP ROOF, ASPHALT AND GRAVEL (SLAG)

Over Concrete Decks, Slope ¼" to 2" in 1'-0"

Where slope is over 2", nailing strip shall be provided for in the roof deck

When Used Over Bird Insulated Decks, No Primer Is Required

Bird Specification No. 102—Type 415-AC

The construction for this roof is identical with Specification No. 602, with the following changes under "Installation":

- Entire roof surface shall first be primed with Bird Asphalt Primer.
- Four (4) plies of Bird 15 lb. Asphalt Felt 36 ins. wide shall be laid over entire roof surface, each sheet lapped twenty-seven

Felt—Shall be Bird 15 lb. Tarred Felt thirty-two (32) ins. wide weighing approximately 15 lbs. per one hundred (100) sq. ft.

Pitch—Shall be Bird Roofing Pitch and shall not be heated above three hundred seventy-five (375) degrees Fahrenheit.

Gravel or Slag—Shall be dry and free from dirt and range from (one-quarter) ¼ to five-eighths (⅝) in. in size.

Nails—For wood or wooden nailing strips, shall be one (1) in. barbed nails driven through flat metal discs (or approved large head roofing nails). For gypsum or other composition decks, shall be one and one-half (1½) in. cut nails driven through flat metal discs.

Installation

- Entire roof deck shall be coated with Bird Roofing Pitch.
- Four (4) plies of Bird 15 lb. Tarred Felt shall be laid over entire roof surface, each sheet lapped twenty-four and one-half (24½) ins. and embedded in Bird Roofing Pitch. Each sheet shall be nailed along upper edge with barbed nails driven through flat tinned discs spaced not more than two (2) ft. on centers.
- A uniform coating of Bird Roofing Pitch shall be poured over the entire surface, using not less than sixty (60) lbs. per 100 sq. ft., into which, while hot, shall be embedded not less than four hundred (400) lbs. of gravel or three hundred (300) lbs. of slag per 100 sq. ft.

All Felts shall be laid without wrinkles or buckles, and be turned up two (2) ins. on, but not sealed to, all vertical surfaces.

Flashing

(Copy from Bird Flashing Specifications.)

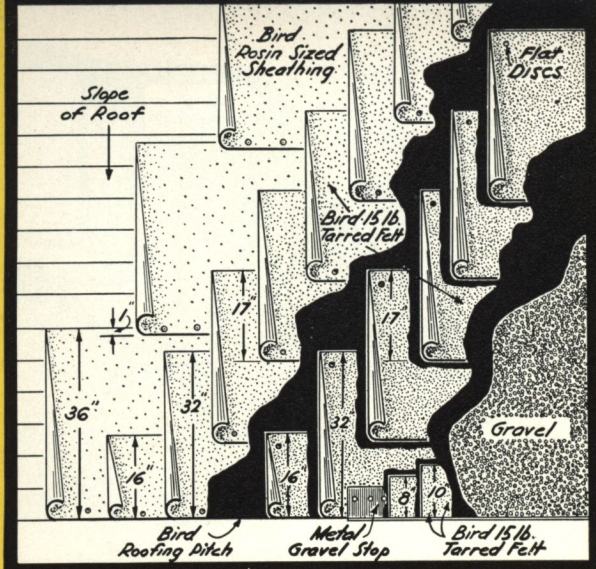
Bond

If desired, where Bird & Son, inc., inspection is available, the following may be added for roofs of fifty or more squares:

The Roofing Contractor shall be approved by Bird & Son, inc., and shall furnish a Bird Twenty-Year Guarantee Bond to cover the roofing applied under this contract.

and one-half (27½) ins. and embedded in Bird Roofing Asphalt. Each sheet shall be nailed three (3) ins. from upper edge with barbed nails driven through flat tinned discs spaced not more than twelve (12) ins. on centers.

- Substitute Bird Roofing Asphalt No. 16 for Bird Roofing Pitch. (Balance of specification remains the same.)



BIRD 15 YEAR BUILT-UP ROOF, PITCH AND GRAVEL OR SLAG Over Wood or Precast Gypsum Decks Slope 0" to 2" in 1'-0"

SPECIFICATION NO. 603—TYPE 415-TW

BILL OF MATERIALS PER 100 SQUARE FEET

Rosin Sized Paper—Bird Rosin Sized Paper	6 lbs.
Tarred Felt—4 layers Bird 15 lb. Tarred Felt	62 lbs.
Pitch—Bird Roofing Pitch	120 lbs.
Nails and Discs—1" barbed nails for wood or 1½" cut nails for gypsum, through flat tinned discs.	
Surfacing—Gravel	400 lbs.
Slag	300 lbs.

Work Included

The work proposed under this specification shall include all labor, material, equipment and services necessary for, and relevant to, the installation of Bird Specification No. (), Type () Built-up Roof and Bird Flashing (state type) to (state in detail the surfaces to be covered).

Preliminary Work by Others

The preparation of the roof deck, adjoining vertical surfaces and metal construction (unless specified in Work Included) is *not* a part of the Roofing Contract but will be installed and furnished by others and shall include the following work:

- Roof Construction—Including cants, coves or fillets, shall be properly graded to conduct all water into gutters and roof drains, leaving all surfaces smooth and clean, in a satisfactory condition to receive roofing.
- Vertical Wall Construction—Including parapet walls, curbs, etc. Non-combustible walls (brick excepted) which are to receive Bird Flashing shall be provided with a nailing strip centered five (5) ins. above roof. Curbs of similar construction shall be provided with a nailing strip at top. (Where Bird Flashings are to extend through walls or under coping, walls will be built to proper height and left ready to receive flashing.)
- Metal Construction—Including roof drains, sheet metal flanges required at pipes, vents, conductor heads or other openings through roof, etc.

Inspection of Preliminary Work

The Roofing Contractor shall examine all surfaces on which or against which his work is to be applied and shall notify the Architect or General Contractor if for any reason there are defects which he considers detrimental to the installation of his materials. He shall see to it that all defects are corrected, all surfaces properly sloped to drains, etc., and all roof surfaces clean and dry before installing his materials. Application of roofing by Roofing Contractor shall be an acceptance of surfaces.

Materials

All Roofing Materials shall be as manufactured by Bird & Son, inc., and delivered to the job in the original packages, bearing the manufacturer's labels.

Rosin Sized Sheathing Paper—Shall be Bird Rosin Sized Sheathing Paper, thirty-six (36) ins. wide, weighing not less than six (6) lbs. per one hundred (100) sq. ft.

Felt—Shall be Bird 15 lb. Tarred Felt thirty-two (32) ins. wide weighing approximately 15 lbs. per one hundred (100) sq. ft.

Pitch—Shall be Bird Roofing Pitch and shall not be heated above three hundred seventy-five (375) degrees Fahrenheit.

Gravel or Slag—Shall be dry and free from dirt and range from one-quarter (¼) to five-eighths (⅝) in. in size.

Nails—For wood or wooden nailing strips, shall be one (1) in. barbed nails driven through flat metal discs (or approved large head roofing nails). For gypsum or other composition decks, shall be one and one-half (1½) in. cut nails driven through flat metal discs.

Installation

- Entire roof deck shall be covered with one (1) layer of Sheathing Paper, lapping sheets not less than one (1) in.
- Two (2) plies of Bird 15 lb. Tarred Felt shall be laid dry over the Sheathing Paper, lapped seventeen (17) ins. and nailed often enough to hold sheets in place.
- Two (2) additional plies of Bird 15 lb. Tarred Felt shall be laid over entire surface, lapped seventeen (17) ins. and each sheet embedded its full width in Bird Roofing Pitch. Each sheet shall be nailed along upper edge with barbed nails driven through flat tinned discs spaced not more than two (2) ft. on centers.
- A uniform coating of Bird Roofing Pitch shall be poured over the entire surface, using not less than sixty (60) lbs. per 100 sq. ft., into which, while hot, shall be embedded not less than four hundred (400) lbs. of gravel or three hundred (300) lbs. of slag per 100 sq. ft.

Felts shall be laid without wrinkles or buckles, and be turned up two (2) ins. on, but not sealed to, all vertical surfaces.

Flashing

(Copy from Bird Flashing Specifications.)

Bond

If desired, where Bird & Son, inc., inspection is available, the following may be added for roofs of fifty or more squares:

The Roofing Contractor shall be approved by Bird & Son, inc., and shall furnish a Bird Fifteen-Year Guarantee Bond to cover the roofing applied under this contract.

BIRD 15-YEAR BUILT-UP ROOF, ASPHALT AND GRAVEL (SLAG) Over Wood or Precast Gypsum Decks, Slope ¼" to 3" in 1'-0"

Bird Specification No. 103—Type 415-AW

The construction for this roof is identical with Specification No. 603, with changes under "Installation" as follows:

- Omit item No. 1 entirely.
- Two (2) plies of Bird 15 lb. Asphalt Felt 36 ins. wide shall be laid dry over entire roof deck, lapped nineteen (19) ins. and nailed in two (2) staggered parallel rows, three-quarters (¾) in. and eight and one-half (8½) ins. above the lower edge, and

- spaced nine (9) ins. center to center.
- Two (2) additional plies of Bird 15 lb. Asphalt Felt 36 ins. wide shall be laid over entire surface, lapped nineteen (19) ins. and each sheet embedded its full width in Bird Roofing Asphalt No. 16.
- Substitute Bird Roofing Asphalt No. 16 for Bird Roofing Pitch. (Balance of specification remains the same.)

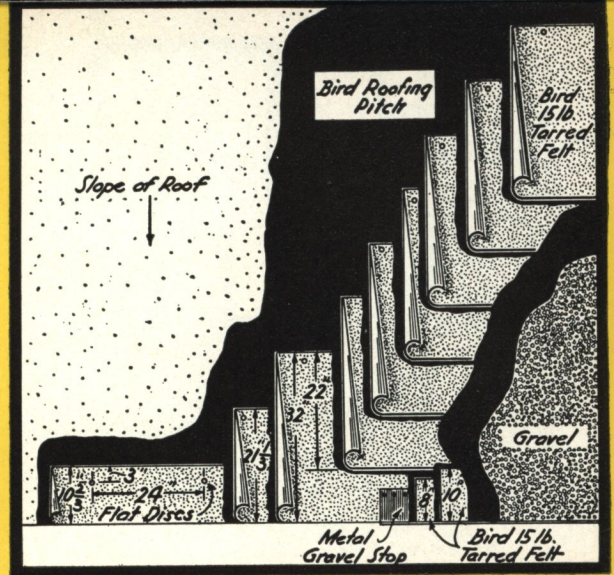
BIRD 15 YEAR BUILT-UP ROOF, PITCH AND GRAVEL OR SLAG

Over Poured Concrete, Gypsum Decks,
or Bird Roof Insulator
Slope 0" to 2" in 1'-0"

SPECIFICATION No. 604—TYPE 315-TC

BILL OF MATERIALS PER 100 SQUARE FEET

Tarred Felt—3 layers Bird 15 lb. Tarred Felt.....	46 lbs.
Pitch—Bird Roofing Pitch	150 lbs.
Nails and Discs—1" barbed nails for wood nailing strips or 1½" cut nails for other materials, through flat tinned discs.	
Surfacing—Gravel	400 lbs.
Slag	300 lbs.



Work Included

The work proposed under this specification shall include all labor, material, equipment and services necessary for, and relevant to, the installation of Bird Specification No. (), Type () Built-up Roof and Bird Flashing (state type) to (state in detail the surfaces to be covered).

Preliminary Work by Others

The preparation of the roof deck, adjoining vertical surfaces and metal construction (unless specified in Work Included) is not a part of the Roofing Contract but will be installed and furnished by others and shall include the following work:

- Roof Construction—Including eaves, coves or fillets, shall be properly graded to conduct all water into gutters and roof drains, leaving all surfaces smooth and clean, in a satisfactory condition to receive roofing.
- Vertical Wall Construction—Including parapet walls, curbs, etc. Non-combustible walls (brick excepted) which are to receive Bird Flashing shall be provided with a nailing strip centered five (5) ins. above roof. Curbs of similar construction shall be provided with a nailing strip at top. (Where Bird Flashings are to extend through walls or under coping, walls will be built to proper height and left ready to receive flashing.)
- Metal Construction—Including roof drains, sheet metal flanges required at pipes, vents, conductor heads or other openings through roof, etc.

Inspection of Preliminary Work

The Roofing Contractor shall examine all surfaces on which or against which his work is to be applied and shall notify the Architect or General Contractor if for any reason there are defects which he considers detrimental to the installation of his materials. He shall see to it that all defects are corrected, all surfaces properly sloped to drains, etc., and all roof surfaces clean and dry before installing his materials. Application of roofing by Roofing Contractor shall be an acceptance of surfaces.

Materials

All Roofing Materials shall be as manufactured by Bird & Son, inc., and delivered to the job in the original packages, bearing the manufacturer's labels.

BIRD 15-YEAR BUILT-UP ROOF, ASPHALT AND GRAVEL (SLAG) Over Concrete Decks, Slope ¼" to 2" in 1'-0"

Where slope is over 2", nailing strip shall be provided for in the roof deck
(When Used Over Bird Insulated Decks, No Primer Is Required)

Bird Specification No. 104—Type 315-AC

The construction for this roof is identical with Specification No. 604, with the following changes under "Installation":

- Entire roof surface shall first be primed with Bird Asphalt Primer:
- Three (3) plies of Bird 15 lb. Asphalt Felt 36 ins. wide shall be laid over entire roof surface, each sheet lapped twenty-five

Felt—Shall be Bird 15 lb. Tarred Felt thirty-two (32) ins. wide weighing approximately 15 lbs. per one hundred (100) sq. ft.

Pitch—Shall be Bird Roofing Pitch and shall not be heated above three hundred seventy-five (375) degrees Fahrenheit.

Gravel or Slag—Shall be dry and free from dirt and range from one-quarter (¼) to five-eighths (⅝) in. in size.

Nails—For wood or wooden nailing strips shall be one (1) in. barbed nails driven through flat metal discs (or approved large head roofing nails). For gypsum or other composition decks, shall be one and one-half (1½) in. cut nails driven through flat metal discs.

Installation

- Entire roof deck shall be coated with Bird Roofing Pitch.
- Three (3) plies of Bird 15 lb. Tarred Felt shall be laid over entire roof surface, each sheet lapped twenty-two (22) ins. and embedded in Bird Roofing Pitch. Each sheet shall be nailed along upper edge with barbed nails driven through flat tinned discs not more than two (2) ft. on centers.
- A uniform coating of Bird Roofing Pitch shall be poured over the entire surface, using not less than sixty (60) lbs. per 100 sq. ft. into which, while hot, shall be embedded not less than four hundred (400) lbs. of gravel or three hundred (300) lbs. of slag per 100 sq. ft.

All Felts shall be laid without wrinkles or buckles, and be turned up two (2) ins. on, but not sealed to, all vertical surfaces.

Flashing

(Copy from Bird Flashing Specifications.)

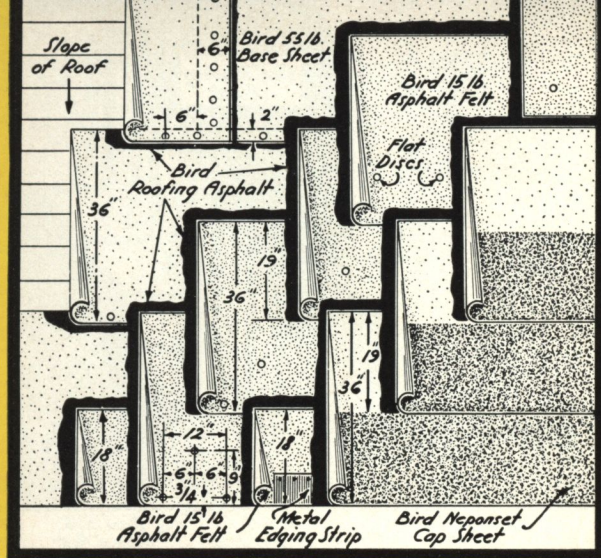
Bond

If desired, where Bird & Son, inc., inspection is available, the following may be added for roofs of fifty or more squares:

The Roofing Contractor shall be approved by Bird & Son, inc., and shall furnish a Bird Fifteen-Year Guarantee Bond to cover the roofing applied under this contract.

- (25) ins. and embedded in Bird Roofing Asphalt. Each sheet shall be nailed three (3) ins. from upper edge with barbed nails driven through flat tinned discs spaced not more than twelve (12) ins. on centers.
- Substitute Bird Roofing Asphalt No. 16 for Bird Roofing Pitch.

(Balance of specification remains the same.)



BIRD 20 YEAR BUILT-UP ROOF, MINERAL SURFACE

Over Wood or Precast Gypsum Decks
Slope 1" to 6" in 1'-0"

SPECIFICATION NO. 201—TYPE B215-A-NW

BILL OF MATERIALS PER 100 SQUARE FEET

Base Sheet—1 layer Bird 55 lb. Base Sheet	55 lbs.
Asphalt Felt—2 layers Bird 15 lb. Asphalt Felt	31 lbs.
Asphalt—Bird Roofing Asphalt	120 lbs.
Nails and Discs—1" barbed nails for wood or 1½" cut nails for gypsum, through flat tinned discs.	
Surfacing—2 layers Bird Neponset Cap Sheet	88 lbs.

Work Included

The work proposed under this specification shall include all labor, material, equipment and services necessary for, and relevant to, the installation of Bird Specification No. (), Type () Built-up Roof and Bird Flashing (state type) to (state in detail the surfaces to be covered).

Preliminary Work by Others

The preparation of the roof deck, adjoining vertical surfaces and metal construction (unless specified in Work Included) is *not* a part of the Roofing Contract but will be installed and furnished by others and shall include the following work:

- Roof Construction—Including cants, coves or fillets, shall be properly graded to conduct all water into gutters and roof drains, leaving all surfaces smooth and clean, in a satisfactory condition to receive roofing.
- Vertical Wall Construction—Including parapet walls, curbs, etc. Non-combustible walls (brick excepted) which are to receive Bird Flashing shall be provided with a nailing strip centered five (5) ins. above roof. Curbs of similar construction shall be provided with a nailing strip at top. (Where Bird Flashings are to extend through walls or under coping, walls will be built to proper height and left ready to receive flashing.)
- Metal Construction—Including roof drains, sheet metal flanges required at pipes, vents, conductor heads or other openings through roof, etc.

Inspection of Preliminary Work

The Roofing Contractor shall examine all surfaces on which or against which his work is to be applied and shall notify the Architect or General Contractor if for any reason there are defects which he considers detrimental to the installation of his materials. He shall see to it that all defects are corrected, all surfaces properly sloped to drains, etc., and all roof surfaces clean and dry before installing his materials. Application of roofing by Roofing Contractor shall be an acceptance of surfaces.

Materials

All Roofing Materials shall be as manufactured by Bird & Son, inc., and delivered to the job in the original packages, bearing the manufacturer's labels.

Base Sheet—Shall be Bird 55 lb. Base Sheet for Built-up Roofs, thirty-six (36) ins. wide weighing approximately fifty-five (55) lbs. per one hundred (100) sq. ft.

Felt—Shall be Bird 15 lb. Asphalt Felt thirty-six (36) ins. wide weighing approximately fifteen (15) lbs. per one hundred (100) sq. ft.

Cap Sheet—Shall be Bird Neponset Cap Sheet thirty-six (36) ins. wide with nineteen (19) in. selvage weighing approximately eighty-eight (88) lbs. per one hundred (100) sq. ft. in place.

Asphalt—Shall be Bird No. 18 Roofing Asphalt.

Nails—For wood or wooden nailing strips shall be one (1) in. barbed nails driven through flat metal discs (or approved large head roofing nails). For gypsum or other composition decks, shall be one and one-half (1½) in. cut nails driven through flat metal discs.

Installation

- Entire roof deck shall be covered with one (1) layer of Bird 55 lb. Base Sheets lapped two (2) ins. at edges and six (6) ins. at ends. Laps shall be cemented with hot Bird Roofing Asphalt No. 18 and nailed on six (6) in. centers.
- Two (2) plies of Bird 15 lb. Asphalt Felt shall be laid over the Base Sheet, lapped nineteen (19) ins., and each sheet embedded its full width in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft. Each sheet shall be nailed in two (2) staggered parallel rows three-quarters (¾) in. and nine (9) ins. from lower edge of sheet, spacing nails twelve (12) ins. center to center.
- Bird Neponset Cap Sheet shall be laid in two ply construction over the Felts, lapped nineteen (19) ins. and embedded its full width in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft.

All Felts, Base Sheets and Cap Sheets shall be laid without wrinkles or buckles, and be turned up two (2) ins. on, but not sealed to, all vertical surfaces. All Felts and Cap Sheets shall be thoroughly broomed into the hot asphalt to secure proper bond at all points.

Flashing

(Copy from Bird Flashing Specifications.)

Bond

If desired where Bird & Son, inc., inspection is available, the following may be added for roofs of fifty or more squares:

The Roofing Contractor shall be approved by Bird & Son, inc., and shall furnish a Bird Twenty-Year Guarantee Bond to cover the roofing applied under this contract.

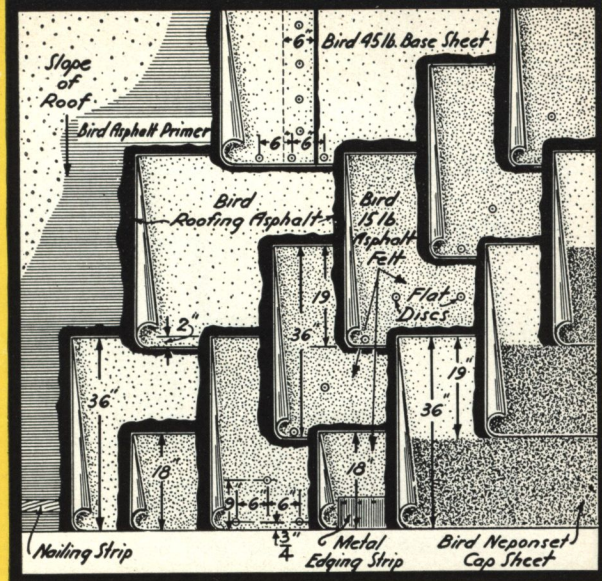
BIRD 20 YEAR BUILT-UP ROOF, MINERAL SURFACE

Over Poured Concrete, Gypsum Decks,
or Bird Roof Insulator
Slope 1" to 6" in 1'-0"

SPECIFICATION NO. 202—TYPE B215-A-NC

BILL OF MATERIALS PER 100 SQUARE FEET

Primer—Bird Asphalt Primer	10 lbs.
Base Sheet—1 layer Bird 45 lb. Base Sheet	45 lbs.
Asphalt Felt—2 layers Bird 15 lb. Asphalt Felt	31 lbs.
Asphalt—Bird Roofing Asphalt	150 lbs.
Nails and Discs—1" barbed nails for wood nailing strips or 1½" cut nails for other materials, through flat tinned discs.	
Surfacing—2 layers Bird Neponset Cap Sheet	88 lbs.



When Used Over Bird Insulated Decks, No Primer Is Required

Work Included

The work proposed under this specification shall include all labor, material, equipment and services necessary for, and relevant to, the installation of Bird Specification No. (), Type () Built-up Roof and Bird Flashing (state type) to (state in detail the surfaces to be covered).

Preliminary Work by Others

The preparation of the roof deck, adjoining vertical surfaces and metal construction (unless specified in Work Included) is *not* a part of the Roofing Contract but will be installed and furnished by others and shall include the following work:

- Roof Construction—Including cants, coves or fillets, shall be properly graded to conduct all water into gutters and roof drains, leaving all surfaces smooth and clean, in a satisfactory condition to receive roofing.
- Vertical Wall Construction—Including parapet walls, curbs, etc. Non-combustible walls (brick excepted) which are to receive Bird Flashing shall be provided with a nailing strip centered five (5) ins. above roof. Curbs of similar construction shall be provided with a nailing strip at top. (Where Bird Flashings are to extend through walls or under coping, walls will be built to proper height and left ready to receive flashing.)
- Metal Construction—Including roof drains, sheet metal flanges required at pipes, vents, conductor heads or other openings through roof, etc.

Inspection of Preliminary Work

The Roofing Contractor shall examine all surfaces on which or against which his work is to be applied and shall notify the Architect or General Contractor if for any reason there are defects which he considers detrimental to the installation of his materials. He shall see to it that all defects are corrected, all surfaces properly sloped to drains, etc., and all roof surfaces clean and dry before installing his materials. Application of roofing by Roofing Contractor shall be an acceptance of surfaces.

Materials

All Roofing Materials shall be as manufactured by Bird & Son, inc., and delivered to the job in the original packages, bearing the manufacturer's labels.

Primer—Shall be Bird Asphalt Primer.

Base Sheet—Shall be Bird 45 lb. Base Sheet for Built-up Roofs, thirty-six (36) ins. wide weighing approximately forty-five (45) lbs. per one hundred (100) sq. ft.

Felt—Shall be Bird 15 lb. Asphalt Felt thirty-six (36) ins. wide weighing approximately fifteen (15) lbs. per one hundred (100) sq. ft.

Cap Sheet—Shall be Bird Neponset Cap Sheet thirty-six (36) ins. wide with nineteen (19) in. selvage weighing approximately eighty-eight (88) lbs. per one hundred (100) sq. ft. in place.

Asphalt—Shall be Bird No. 18 Roofing Asphalt.

Nails—For wooden nailing strips, shall be one (1) in. barbed nails driven through flat metal discs (or approved large head roofing nails). For gypsum or other composition decks, shall be one and one-half (1½) in. cut nails driven through flat metal discs.

Installation

- Entire surface to be roofed and flashed shall be coated with Bird Asphalt Primer and allowed to dry.
- Entire roof surface shall be covered with one (1) layer of Bird 45 lb. Base Sheet embedded full width in Bird Roofing Asphalt No. 18, and lapped two (2) ins. at edges and six (6) ins. at ends. Laps shall be cemented with hot Bird Roofing Asphalt No. 18 and nailed on six (6) in. centers.
- Two (2) plies of Bird 15 lb. Asphalt Felt shall be laid over the Base Sheet, lapped nineteen (19) ins. and each sheet embedded its full width in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft. Each sheet shall be nailed in two (2) staggered parallel rows three-quarters (¾) in. and nine (9) ins. from lower edge of sheet, spacing nails twelve (12) ins. center to center.
- Bird Neponset Cap Sheet shall be laid in two ply construction over the Felts, lapped nineteen (19) ins. and embedded its full width in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft.

All Felts, Base Sheets and Cap Sheets shall be laid without wrinkles or buckles, and be turned up two (2) ins. on, but not sealed to, all vertical surfaces. All Felts and Cap Sheets shall be thoroughly broomed into the hot asphalt to secure proper bond at all points.

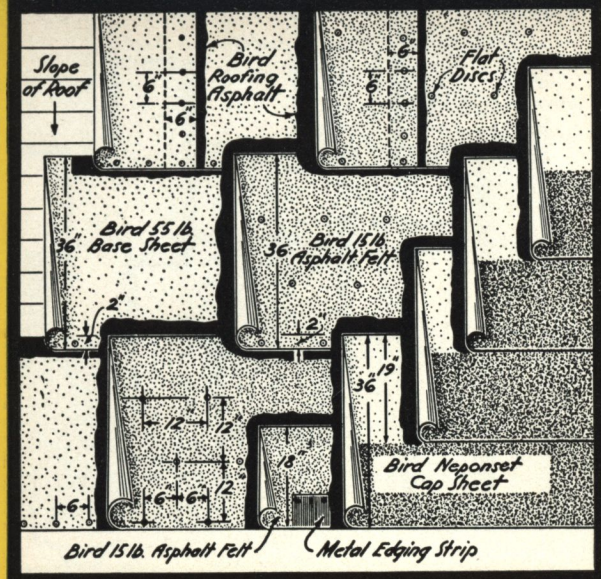
Flashing

(Copy from Bird Flashing Specifications.)

Bond

If desired where Bird & Son, inc., inspection is available, the following may be added for roofs of fifty or more squares:

The Roofing Contractor shall be approved by Bird & Son, inc., and shall furnish a Bird Twenty-Year Guarantee Bond to cover the roofing applied under this contract.



BIRD 15 YEAR BUILT-UP ROOF, MINERAL SURFACE

Over Wood or Precast Gypsum Decks
Slope 1" to 6" in 1'-0"

SPECIFICATION NO. 203—TYPE B15-A-NW

BILL OF MATERIALS PER 100 SQUARE FEET

Base Sheet—1 layer Bird 55 lb. Base Sheet.....	55 lbs.
Asphalt Felt—1 layer Bird 15 lb. Asphalt Felt.....	15 lbs.
Asphalt—Bird Roofing Asphalt	90 lbs.
Nails and Discs—1" barbed nails for wood or 1½" cut nails for gypsum, through flat tinned discs.	
Surfacing—2 layers Bird Neponset Cap Sheet.....	88 lbs.

Work Included

The work proposed under this specification shall include all labor, material, equipment and services necessary for, and relevant to, the installation of Bird Specification No. (), Type () Built-up Roof and Bird Flashing (state type) to (state in detail the surfaces to be covered).

Preliminary Work by Others

The preparation of the roof deck, adjoining vertical surfaces and metal construction (unless specified in Work Included) is *not* a part of the Roofing Contract but will be installed and furnished by others and shall include the following work:

- Roof Construction—Including cants, coves or fillets, shall be properly graded to conduct all water into gutters and roof drains, leaving all surfaces smooth and clean, in a satisfactory condition to receive roofing.
- Vertical Wall Construction—Including parapet walls, curbs, etc. Non-combustible walls (brick excepted) which are to receive Bird Flashing shall be provided with a nailing strip centered five (5) ins. above roof. Curbs of similar construction shall be provided with a nailing strip at top. (Where Bird Flashings are to extend through walls or under coping, walls will be built to proper height and left ready to receive flashing.)
- Metal Construction—Including roof drains, sheet metal flanges required at pipes, vents, conductor heads or other openings through roof, etc.

Inspection of Preliminary Work

The Roofing Contractor shall examine all surfaces on which or against which his work is to be applied and shall notify the Architect or General Contractor if for any reason there are defects which he considers detrimental to the installation of his materials. He shall see to it that all defects are corrected, all surfaces properly sloped to drains, etc., and all roof surfaces clean and dry before installing his materials. Application of roofing by Roofing Contractor shall be an acceptance of surfaces.

Materials

All Roofing Materials shall be as manufactured by Bird & Son, inc., and delivered to the job in the original packages, bearing the manufacturer's labels.

Base Sheet—Shall be Bird 55 lb. Base Sheet for Built-up Roofs, thirty-six (36) ins. wide weighing approximately fifty-five (55) lbs. per one hundred (100) sq. ft.

Felt—Shall be Bird 15 lb. Asphalt Felt thirty-six (36) ins. wide weighing approximately fifteen (15) lbs. per one hundred (100) sq. ft.

Cap Sheet—Shall be Bird Neponset Cap Sheet thirty-six (36) ins. wide with nineteen (19) in. selvage weighing approximately eighty-eight (88) lbs. per one hundred (100) sq. ft. in place.

Asphalt—Shall be Bird No. 18 Roofing Asphalt.

Nails—For wood or wooden nailing strips, shall be one (1) in. barbed nails driven through flat metal discs (or approved large head roofing nails.) For gypsum or other composition decks, shall be one and one-half (1½) in. cut nails driven through flat metal discs.

Installation

- Entire roof deck shall be covered with one (1) layer of Bird 55 lb. Base Sheets lapped two (2) ins. at edges and six (6) ins. at ends. Laps shall be cemented with hot Bird Roofing Asphalt No. 18 and nailed on six (6) in. centers.
- One (1) ply of Bird 15 lb. Asphalt Felt shall be laid over the Base Sheet, lapped two (2) ins. at edges and six (6) ins. at ends, and each sheet embedded its full width in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft. Each sheet shall be nailed at the lap and in two (2) staggered parallel rows twelve (12) and twenty-four (24) ins. from lower edge of sheet, spacing nails twelve (12) ins. center to center.
- Bird Neponset Cap Sheet shall be laid in two ply construction over the Felt, lapped nineteen (19) ins. and embedded its full width in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft.

All Felts, Base Sheets and Cap Sheets shall be laid without wrinkles or buckles, and be turned up two (2) ins. on, but not sealed to, all vertical surfaces. All Felts and Cap Sheets shall be thoroughly broomed into the hot asphalt to secure proper bond at all points.

Flashing

(Copy from Bird Flashing Specifications.)

Bond

If desired, where Bird & Son, inc., inspection is available, the following may be added for roofs of fifty or more squares:

The Roofing Contractor shall be approved by Bird & Son, inc., and shall furnish a Bird Fifteen-Year Guarantee Bond to cover the roofing applied under their contract.

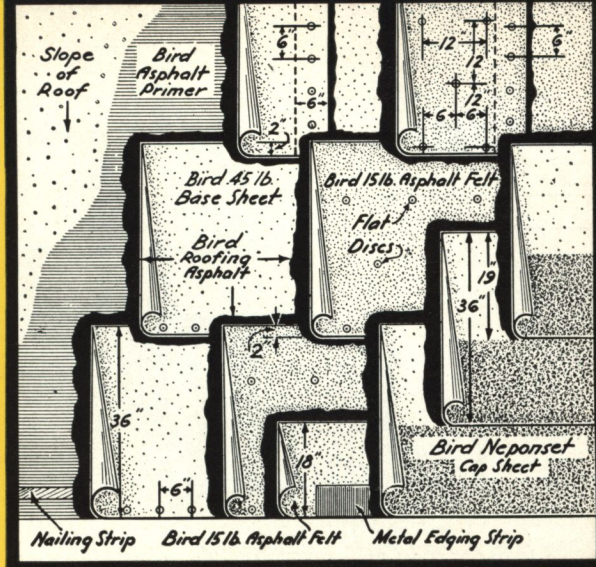
BIRD 15 YEAR BUILT-UP ROOF, MINERAL SURFACE

Over Poured Concrete, Gypsum Decks,
or Bird Roof Insulator
Slope 1" to 6" in 1'-0"

SPECIFICATION NO. 204—TYPE B15-A-NC

BILL OF MATERIALS PER 100 SQUARE FEET

Primer—Bird Asphalt Primer	10 lbs.
Base Sheet—1 layer Bird 45 lb. Base Sheet	45 lbs.
Asphalt Felt—1 layer Bird 15 lb. Asphalt Felt	15 lbs.
Asphalt—Bird Roofing Asphalt	120 lbs.
Nails and Discs—1" barbed nails for wood nailing strips or 1½" cut nails for other materials, through flat tinned discs.	
Surfacing—2 layers Bird Neponset Cap Sheet	88 lbs.



When Used Over Bird Insulated Decks, No Primer Is Required

Work Included

The work proposed under this specification shall include all labor, material, equipment and services necessary for, and relevant to, the installation of Bird Specification No. (), Type () Built-up Roof and Bird Flashing (state type) to (state in detail the surfaces to be covered).

Preliminary Work by Others

The preparation of the roof deck, adjoining vertical surfaces and metal construction (unless specified in Work Included) is *not* a part of the Roofing Contract but will be installed and furnished by others and shall include the following work:

- Roof Construction—Including cants, coves or fillets, shall be properly graded to conduct all water into gutters and roof drains, leaving all surfaces smooth and clean, in a satisfactory condition to receive roofing.
- Vertical Wall Construction—Including parapet walls, curbs, etc. Non-combustible walls (brick excepted) which are to receive Bird Flashing shall be provided with a nailing strip centered five (5) ins. above roof. Curbs of similar construction shall be provided with a nailing strip at top. (Where Bird Flashings are to extend through walls or under coping, walls will be built to proper height and left ready to receive flashing.)
- Metal Construction—Including roof drains, sheet metal flanges required at pipes, vents, conductor heads or other openings through roof, etc.

Inspection of Preliminary Work

The Roofing Contractor shall examine all surfaces on which or against which his work is to be applied and shall notify the Architect or General Contractor if for any reason there are defects which he considers detrimental to the installation of his materials. He shall see to it that all defects are corrected, all surfaces properly sloped to drains, etc., and all roof surfaces clean and dry before installing his materials. Application of roofing by Roofing Contractor shall be an acceptance of surfaces.

Materials

All Roofing Materials shall be as manufactured by Bird & Son, inc., and delivered to the job in the original packages, bearing the manufacturer's labels.

Primer—Shall be Bird Asphalt Primer.

Base Sheet—Shall be Bird 45 lb. Base Sheet for Built-up Roofs, thirty-six (36) ins. wide weighing approximately forty-five (45) lbs. per one hundred (100) sq. ft.

Felt—Shall be Bird 15 lb. Asphalt Felt thirty-six (36) ins. wide

weighing approximately fifteen (15) lbs. per one hundred (100) sq. ft.

Cap Sheet—Shall be Bird Neponset Cap Sheet thirty-six (36) ins. wide with nineteen (19) in. selvage weighing approximately eighty-eight (88) lbs. per one hundred (100) sq. ft. in place.

Asphalt—Shall be Bird No. 18 Roofing Asphalt.

Nails—For wood or wooden nailing strips, shall be one (1) in. barbed nails driven through flat metal discs (or approved large head roofing nails). For gypsum or other composition decks, shall be one and one-half (1½) in. cut nails driven through flat metal discs.

Installation

- Entire surface to be roofed and flashed shall be coated with Bird Asphalt Primer and allowed to dry.
- Entire roof surface shall be covered with one (1) layer of Bird 45 lb. Base Sheet embedded full width in Bird Roofing Asphalt No. 18, and lapped two (2) ins. at edges and six (6) ins. at ends. Laps shall be cemented with hot Bird Roofing Asphalt No. 18 and nailed on six (6) in. centers.
- One (1) ply of Bird 15 lb. Asphalt Felt shall be laid over the Base Sheet, lapped two (2) ins. at edges and six (6) ins. at ends, and each sheet embedded its full width in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft. Each sheet shall be nailed at the lap, and in two (2) staggered parallel rows twelve (12) ins. and twenty-four (24) ins. from lower edge of sheet, spacing nails twelve (12) ins. center to center.
- Bird Neponset Cap Sheet shall be laid in two ply construction over the Felt, lapped nineteen (19) ins. and embedded its full width in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft.

All Felts, Base Sheets and Cap Sheets shall be laid without wrinkles or buckles, and be turned up two (2) ins. on, but not sealed to, all vertical surfaces. All Felts and Cap Sheets shall be thoroughly broomed into the hot asphalt to secure proper bond at all points.

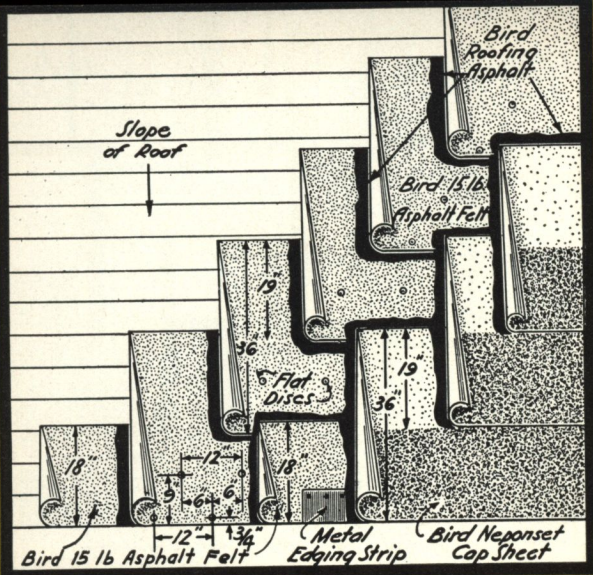
Flashing

(Copy from Bird Flashing Specifications.)

Bond

If desired, where Bird & Son, inc., inspection is available, the following may be added for roofs of fifty or more squares:

The Roofing Contractor shall be approved by Bird & Son, inc., and shall furnish a Bird Fifteen-Year Guarantee Bond to cover the roofing applied under this contract.



BIRD 10 YEAR BUILT-UP ROOF, MINERAL SURFACE

Over Wood or Precast Gypsum Decks
Slope 1" to 6" in 1'-0"

SPECIFICATION NO. 205—TYPE 215-A-NW

BILL OF MATERIALS PER 100 SQUARE FEET

Asphalt Felt—2 layers Bird 15 lb. Asphalt Felt.....	31 lbs.
Asphalt—Bird Roofing Asphalt	90 lbs.
Nails and Discs—1" barbed nails for wood or 1½" cut nails for gypsum, through flat tinned discs.	
Surfacing—2 layers Bird Neponset Cap Sheet.....	88 lbs.

Work Included

The work proposed under this specification shall include all labor, material, equipment and services necessary for, and relevant to, the installation of Bird Specification No. (), Type () Built-up Roof and Bird Flashing (state type) to (state in detail the surfaces to be covered).

Preliminary Work by Others

The preparation of the roof deck, adjoining vertical surfaces and metal construction (unless specified in Work Included) is *not* a part of the Roofing Contract but will be installed and furnished by others and shall include the following work:

- Roof Construction—Including cants, coves or fillets, shall be properly graded to conduct all water into gutters and roof drains, leaving all surfaces smooth and clean, in a satisfactory condition to receive roofing.
- Vertical Wall Construction—Including parapet walls, curbs, etc. Non-combustible walls (brick excepted) which are to receive Bird Flashing shall be provided with a nailing strip centered five (5) ins. above roof. Curbs of similar construction shall be provided with a nailing strip at top. (Where Bird Flashings are to extend through walls or under coping, walls will be built to proper height and left ready to receive flashing.)
- Metal Construction—Including roof drains, sheet metal flanges required at pipes, vents, conductor heads or other openings through roof, etc.

Inspection of Preliminary Work

The Roofing Contractor shall examine all surfaces on which or against which his work is to be applied and shall notify the Architect or General Contractor if for any reason there are defects which he considers detrimental to the installation of his materials. He shall see to it that all defects are corrected, all surfaces properly sloped to drains, etc., and all roof surfaces clean and dry before installing his materials. Application of roofing by Roofing Contractor shall be an acceptance of surfaces.

Materials

All Roofing Materials shall be as manufactured by Bird & Son, inc., and delivered to the job in the original packages, bearing the manufacturer's labels.

Felt—Shall be Bird 15 lb. Asphalt Felt thirty-six (36) ins. wide weighing approximately fifteen (15) lbs. per one hundred (100) sq. ft.

Cap Sheet—Shall be Bird Neponset Cap Sheet thirty-six (36) ins. wide with nineteen (19) in. selvage weighing approximately eighty-eight (88) lbs. per one hundred (100) sq. ft. in place.

Asphalt—Shall be Bird No. 18 Roofing Asphalt.

Nails—For wood or wooden nailing strips shall be one (1) in. barbed nails driven through flat metal discs (or approved large head roofing nails). For gypsum or other composition decks, shall be one and one-half (1½) in. cut nails driven through flat metal discs.

Installation

- Entire roof deck shall be covered with two (2) plies of Bird 15 lb. Asphalt Felt. lapped nineteen (19) ins., and the nineteen (19) in. lap embedded in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft. Each sheet shall be nailed in two (2) staggered parallel rows three-quarters (¾) in. and nine (9) ins. from lower edge of the sheet, spacing the nails twelve (12) ins. center to center.
- Bird Neponset Cap Sheet shall be laid in two ply construction over the Felt, lapped nineteen (19) ins. and embedded its full width in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft.

All Felts, Base Sheets and Cap Sheets shall be laid without wrinkles or buckles, and be turned up two (2) ins. on, but not sealed to, all vertical surfaces. All Felts and Cap Sheets shall be thoroughly broomed into the hot asphalt to secure proper bond at all points.

Flashing

(Copy from Bird Flashing Specifications.)

Bond

If desired, where Bird & Son, inc., inspection is available, the following may be added for roofs of fifty or more squares:

The Roofing Contractor shall be approved by Bird & Son, inc., and shall furnish a Bird Ten-Year Guarantee Bond to cover the roofing applied under this contract.

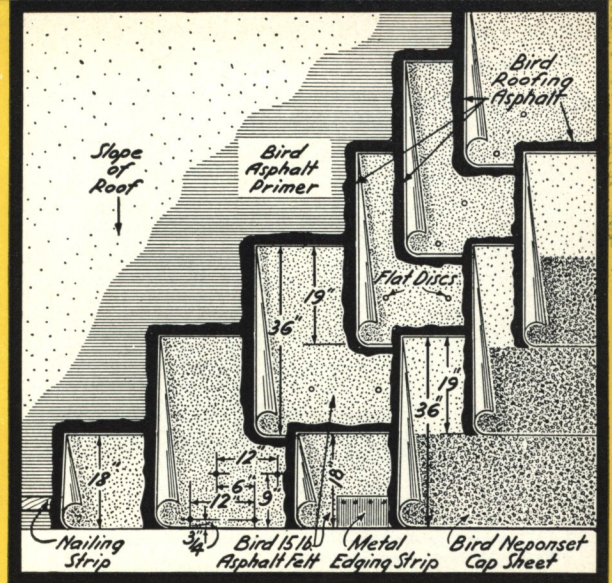
BIRD 10 YEAR BUILT-UP ROOF, MINERAL SURFACE

Over Poured Concrete, Gypsum Decks,
or Bird Roof Insulator
Slope 1" to 6" in 1'-0"

SPECIFICATION NO. 206—TYPE 215-A-NC

BILL OF MATERIALS PER 100 SQUARE FEET

Primer—Bird Asphalt Primer	10 lbs.
Asphalt Felt—2 layers Bird 15 lb. Asphalt Felt	31 lbs.
Asphalt—Bird Roofing Asphalt	120 lbs.
Nails and Discs—1" barbed nails for wood nailing strips or 1½" cut nails for other materials, through flat tinned discs.	
Surfacing—2 layers Bird Neponset Cap Sheet	88 lbs.



When Used Over Bird Insulated Decks, No Primer Is Required

Work Included

The work proposed under this specification shall include all labor, material, equipment and services necessary for, and relevant to, the installation of Bird Specification No. (), Type () Built-up Roof and Bird Flashing (state type) to (state in detail the surfaces to be covered).

Preliminary Work by Others

The preparation of the roof deck, adjoining vertical surfaces and metal construction (unless specified in Work Included) is *not* a part of the Roofing Contract but will be installed and furnished by others and shall include the following work:

- Roof Construction—Including cants, coves or fillets, shall be properly graded to conduct all water into gutters and roof drains, leaving all surfaces smooth and clean, in a satisfactory condition to receive roofing.
- Vertical Wall Construction—Including parapet walls, curbs, etc. Non-combustible walls (brick excepted) which are to receive Bird Flashing shall be provided with a nailing strip centered five (5) ins. above roof. Curbs of similar construction shall be provided with a nailing strip at top. (Where Bird Flashings are to extend through walls or under coping, walls will be built to proper height and left ready to receive flashing.)
- Metal Construction—Including roof drains, sheet metal flanges required at pipes, vents, conductor heads or other openings through roof, etc.

Inspection of Preliminary Work

The Roofing Contractor shall examine all surfaces on which or against which his work is to be applied and shall notify the Architect or General Contractor if for any reason there are defects which he considers detrimental to the installation of his materials. He shall see to it that all defects are corrected, all surfaces properly sloped to drains, etc., and all roof surfaces clean and dry before installing his materials. Application of roofing by Roofing Contractor shall be an acceptance of surfaces.

Materials

All Roofing Materials shall be as manufactured by Bird & Son, inc., and delivered to the job in the original packages, bearing the manufacturer's labels.

Primer—Shall be bird Asphalt Primer.

Felt—Shall be Bird 15 lb. Asphalt Felt thirty-six (36) ins. wide

weighing approximately fifteen (15) lbs. per one hundred (100) sq. ft.

Cap Sheet—Shall be Bird Neponset Cap Sheet thirty-six (36) ins. wide with nineteen (19) in. selvage weighing approximately eighty-eight (88) lbs. per one hundred (100) sq. ft. in place.

Asphalt—Shall be Bird No. 18 Roofing Asphalt.

Nails—For wood or wooden nailing strips shall be one (1) in. barbed nails driven through flat metal discs (or approved large head roofing nails). For gypsum or other composition decks, shall be one and one-half (1½) in. cut nails driven through flat metal discs.

Installation

- Entire surface to be roofed and flashed shall be coated with Bird Asphalt Primer and allowed to dry.
- Entire roof deck shall be covered with two (2) plies of Bird 15 lb. Asphalt Felt, lapped nineteen (19) ins., and each sheet embedded its full width in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft. Each sheet shall be nailed in two (2) staggered parallel rows three-quarters (¾) in. and nine (9) ins. from lower edge of the sheet, spacing the nails twelve (12) ins. center to center.
- Bird Neponset Cap Sheet shall be laid in two ply construction over the Felt, lapped nineteen (19) ins. and embedded its full width in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft.

All Felts, Base Sheets and Cap Sheets shall be laid without wrinkles or buckles, and be turned up two (2) ins. on, but not sealed to, all vertical surfaces. All Felts and Cap Sheets shall be thoroughly broomed into the hot asphalt to secure proper bond at all points.

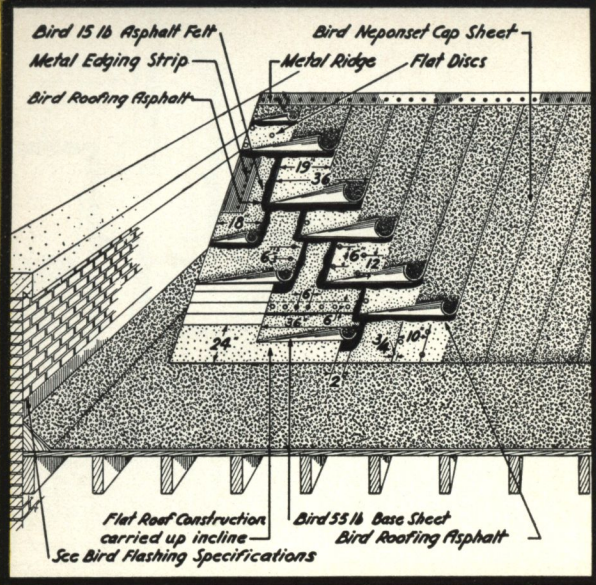
Flashing

(Copy from Bird Flashing Specifications.)

Bond

If desired, where Bird & Son, inc., inspection is available, the following may be added for roofs of fifty or more squares:

The Roofing Contractor shall be approved by Bird & Son, inc., and shall furnish a Bird Ten-Year Guarantee Bond to cover the roofing applied under this contract.



BIRD 10 YEAR BUILT-UP ROOF, MINERAL SURFACE

Over Wood or Precast Gypsum Decks

SPECIFICATION NO. 207—TYPE B-NW

BILL OF MATERIALS PER 100 SQUARE FEET

Base Sheet —1 layer Bird 55 lb. Base Sheet.....	55 lbs.
Asphalt —Bird Roofing Asphalt	60 lbs.
Nails and Discs —1" barbed nails for wood or 1½" cut nails for gypsum, through flat tinned discs.	
Surfacing —2 layers Bird Neponset Cap Sheet.....	36 lbs.

Work Included

The work proposed under this specification shall include all labor, material, equipment and services necessary for, and relevant to, the installation of Bird Specification No. (), Type () Built-up Roof and Bird Flashing (state type) to (state in detail the surfaces to be covered).

Preliminary Work by Others

The preparation of the roof deck, adjoining vertical surfaces and metal construction (unless specified in Work Included) is *not* a part of the Roofing Contract but will be installed and furnished by others and shall include the following work:

- (a) Roof Construction—Including cants, coves or fillets, shall be properly graded to conduct all water into gutters and roof drains, leaving all surfaces smooth and clean, in a satisfactory condition to receive roofing.
- (b) Vertical Wall Construction—Including parapet walls, curbs, etc. Non-combustible walls (brick excepted) which are to receive Bird Flashing shall be provided with a nailing strip centered five (5) ins. above roof. Curbs of similar construction shall be provided with a nailing strip at top. (Where Bird Flashings are to extend through walls or under coping, walls will be built to proper height and left ready to receive flashing.)
- (c) Metal Construction—Including roof drains, sheet metal flanges required at pipes, vents, conductor heads or other openings through roof, etc.

Inspection of Preliminary Work

The Roofing Contractor shall examine all surfaces on which or against which his work is to be applied and shall notify the Architect or General Contractor if for any reason there are defects which he considers detrimental to the installation of his materials. He shall see to it that all defects are corrected, all surfaces properly sloped to drains, etc., and all roof surfaces clean and dry before installing his materials. Application of roofing by Roofing Contractor shall be an acceptance of surfaces.

Materials

All Roofing Materials shall be as manufactured by Bird & Son, inc., and delivered to the job in the original packages, bearing the manufacturer's labels.

Base Sheet—Shall be Bird 55 lb. Base Sheet for Built-up Roofs.

thirty-six (36) ins. wide weighing approximately fifty-five (55) lbs.
per one hundred (100) sq. ft.

Cap Sheet—Shall be Bird Neponset Cap Sheet thirty-six (36) ins. wide with nineteen (19) in. selvage weighing approximately eighty-eight (88) lbs. per one hundred (100) sq. ft. in place.

Asphalt—Shall be Bird No. 18 Roofing Asphalt.

Nails—For wood or wooden nailing strips shall be one (1) in. barbed nails driven through flat metal discs (or approved large head roofing nails). For gypsum or other composition decks, shall be one and one-half (1½) in. cut nails driven through flat metal discs.

Installation

- (1) Entire surface shall be covered with one (1) layer of Bird 55 lb. Base Sheet lapped two (2) ins. at edges and six (6) ins. at ends. Laps shall be cemented with hot Bird Roofing Asphalt No. 18 and nailed on six (6) in. centers.
- (2) Bird Neponset Cap Sheet shall be laid in two ply construction over the Base Sheet, lapped nineteen (19) ins. and embedded its full width in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft. The felt, or selvage portion of the Cap Sheet, shall be nailed in two (2) staggered parallel rows three-quarters ($\frac{3}{4}$) in. and ten (10) ins. from edge, spacing nails twelve (12) ins. center to center.

Note: On inclines under three (3) ins. per foot, Base Sheet and Cap Sheet shall be laid perpendicular to the pitch. On inclines over three (3) ins. per foot, Base Sheet and Cap Sheet shall be laid parallel with the pitch.

All Base Sheets and Cap Sheets shall be laid without wrinkles or buckles, and be turned up two (2) ins. on, but not sealed to, all vertical surfaces. All Felts and Cap Sheets shall be thoroughly broomed into the hot asphalt to secure proper bond at all points.

Flashing

(Copy from Bird Flashing Specifications.)

Bond

If desired where Bird & Son, inc., inspection is available, the following may be added for roofs of fifty or more squares:

The Roofing Contractor shall be approved by Bird & Son, inc., and shall furnish a Bird Ten-Year Guarantee Bond to cover the roofing applied under this contract.

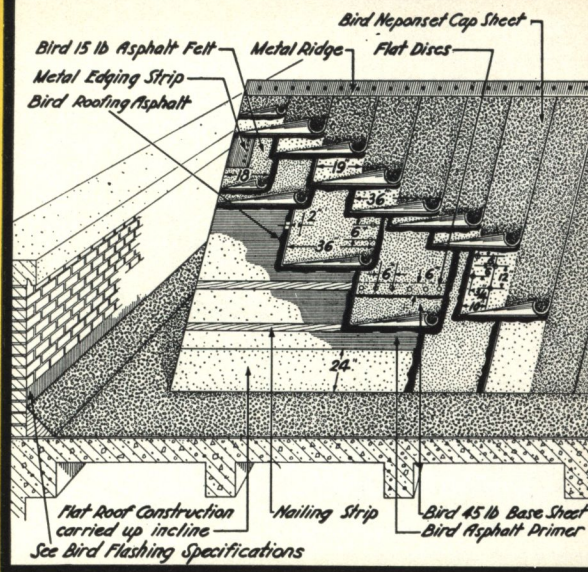
BIRD 10 YEAR BUILT-UP ROOF, MINERAL SURFACE

Over Poured Concrete, Gypsum Decks,
or Bird Roof Insulator
Slope 4" up in 1'-0"

SPECIFICATION NO. 208—TYPE B-NC

BILL OF MATERIALS PER 100 SQUARE FEET

Primer—Bird Asphalt Primer	10 lbs.
Base Sheet—1 layer Bird 45 lb. Base Sheet	45 lbs.
Asphalt—Bird Roofing Asphalt	90 lbs.
Nails and Discs—1" barbed nails for wood nailing strips or 1½" cut nails for other materials, through flat tinned discs.	
Surfacing—2 layers Bird Neponset Cap Sheet	88 lbs.



Work Included

The work proposed under this specification shall include all labor, material, equipment and services necessary for, and relevant to, the installation of Bird Specification No. (), Type () Built-up Roof and Bird Flashing (state type) to (state in detail the surfaces to be covered).

Preliminary Work by Others

The preparation of the roof deck, adjoining vertical surfaces and metal construction (unless specified in Work Included) is *not* a part of the Roofing Contract but will be installed and furnished by others and shall include the following work:

- Roof Construction—Including cants, coves or fillets, shall be properly graded to conduct all water into gutters and roof drains, leaving all surfaces smooth and clean, in a satisfactory condition to receive roofing.
- Vertical Wall Construction—Including parapet walls, curbs, etc. Non-combustible walls (brick excepted) which are to receive Bird Flashing shall be provided with a nailing strip centered five (5) ins. above roof. Curbs of similar construction shall be provided with a nailing strip at top. (Where Bird Flashings are to extend through walls or under coping, walls will be built to proper height and left ready to receive flashing.)
- Metal Construction—Including roof drains, sheet metal flanges required at pipes, vents, conductor heads or other openings through roof, etc.

Inspection of Preliminary Work

The Roofing Contractor shall examine all surfaces on which or against which his work is to be applied and shall notify the Architect or General Contractor if for any reason there are defects which he considers detrimental to the installation of his materials. He shall see to it that all defects are corrected, all surfaces properly sloped to drains, etc., and all roof surfaces clean and dry before installing his materials. Application of roofing by Roofing Contractor shall be an acceptance of surfaces.

Materials

All Roofing Materials shall be as manufactured by Bird & Son, inc., and delivered to the job in the original packages, bearing the manufacturer's labels.

Primer—Shall be Bird Asphalt Primer.

Base Sheet—Shall be Bird 45 lb. Base Sheet for Built-up Roofs,

thirty-six (36) ins. wide weighing approximately forty-five (45) lbs. per one hundred (100) sq. ft.

Cap Sheet—Shall be Bird Neponset Cap Sheet thirty-six (36) ins. wide with nineteen (19) in. selva weighing approximately eighty-eight (88) lbs. per one hundred (100) sq. ft. in place.

Asphalt—Shall be Bird No. 18 Roofing Asphalt.

Nails—For wooden nailing strips, shall be one (1) in. barbed nails driven through flat metal discs (or approved large head roofing nails). For gypsum or other composition decks, shall be one and one-half (1½) in. cut nails driven through flat metal discs.

Installation

- Entire surface to be roofed and flashed shall be coated with Bird Asphalt Primer and allowed to dry.
- Entire roof surface shall be covered with one (1) layer of Bird 45 lb. Base Sheet embedded full width in Bird Roofing Asphalt No. 18 and lapped two (2) ins. at edges and six (6) ins. at ends. Laps shall be cemented with hot Bird Roofing Asphalt No. 18, and nailed on six (6) in. centers.
- Bird Neponset Cap Sheet shall be laid in two ply construction over the Base Sheet, lapped nineteen (19) ins. and embedded its full width in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft. The felt, or selva portion of the Cap Sheet, shall be nailed in two (2) staggered parallel rows three-quarters (¾) in. and ten (10) ins. from edge, spacing nails twelve (12) ins. center to center.

Note: On inclines under three (3) ins. per foot, Base Sheet and Cap Sheet shall be laid perpendicular to the pitch. On inclines over three (3) ins. per foot, Base Sheet and Cap Sheet shall be laid parallel with the pitch.

All Base Sheets and Cap Sheets shall be laid without wrinkles or buckles, and be turned up two (2) ins. on, but not sealed to, all vertical surfaces. All Felts and Cap Sheets shall be thoroughly broomed into the hot asphalt to secure proper bond at all points.

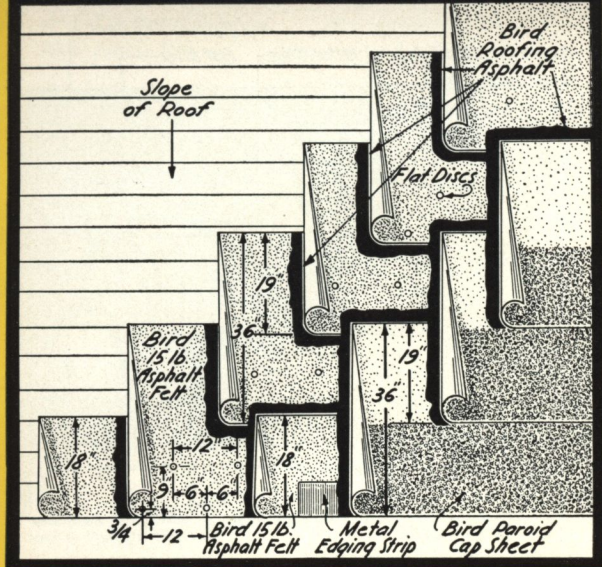
Flashing

(Copy from Bird Flashing Specifications.)

Bond

If desired where Bird & Son, inc., inspection is available, the following may be added for roofs of fifty or more squares:

The Roofing Contractor shall be approved by Bird & Son, inc., and shall furnish a Bird Ten-Year Guarantee Bond to cover the roofing applied under this contract.



BIRD 10 YEAR BUILT-UP ROOF, ASBESTINE TALC SURFACE

Over Wood or Precast Gypsum Decks
Slope 1" to 6" in 1'-0"

SPECIFICATION NO. 303—TYPE 215-A-PW

BILL OF MATERIALS PER 100 SQUARE FEET

Asphalt Felt—2 layers Bird 15 lb. Asphalt Felt	31 lbs.
Asphalt—Bird Roofing Asphalt	90 lbs.
Nails and Discs—1" barbed nails for wood or 1½" cut nails for gypsum, through flat tinned discs.	
Surfacing—2 layers Bird Paroid Cap Sheet	55 lbs.

Work Included

The work proposed under this specification shall include all labor, material, equipment and services necessary for, and relevant to, the installation of Bird Specification No. (), Type () Built-up Roof and Bird Flashing (state type) to (state in detail the surfaces to be covered).

Preliminary Work by Others

The preparation of the roof deck, adjoining vertical surfaces and metal construction (unless specified in Work Included) is *not* a part of the Roofing Contract but will be installed and furnished by others and shall include the following work:

- Roof Construction—Including cants, coves or fillets, shall be properly graded to conduct all water into gutters and roof drains, leaving all surfaces smooth and clean, in a satisfactory condition to receive roofing.
- Vertical Wall Construction—Including parapet walls, curbs, etc. Non-combustible walls (brick excepted) which are to receive Bird Flashing shall be provided with a nailing strip centered five (5) ins. above roof. Curbs of similar construction shall be provided with a nailing strip at top. (Where Bird Flashings are to extend through walls or under coping, walls will be built to proper height and left ready to receive flashing.)
- Metal Construction—Including roof drains, sheet metal flanges required at pipes, vents, conductor heads or other openings through roof, etc.

Inspection of Preliminary Work

The Roofing Contractor shall examine all surfaces on which or against which his work is to be applied and shall notify the Architect or General Contractor if for any reason there are defects which he considers detrimental to the installation of his materials. He shall see to it that all defects are corrected, all surfaces properly sloped to drains, etc., and all roof surfaces clean and dry before installing his materials. Application of roofing by Roofing Contractor shall be an acceptance of surfaces.

Materials

All Roofing Materials shall be as manufactured by Bird & Son, inc., and delivered to the job in the original packages, bearing the manufacturer's labels.

Felt—Shall be Bird 15 lb. Asphalt Felt thirty-six (36) ins. wide weighing approximately fifteen (15) lbs. per one hundred (100) sq. ft.

Cap Sheet—Shall be Bird Paroid Cap Sheet thirty-six (36) ins. wide with nineteen (19) in. selvage weighing approximately fifty-five (55) lbs. per one hundred (100) sq. ft. in place.

Asphalt—Shall be Bird No. 18 Roofing Asphalt.

Nails—For wood or wooden nailing strips shall be one (1) in. barbed nails driven through flat metal discs (or approved large head roofing nails). For gypsum or other composition decks, shall be one and one-half (1½) in. cut nails driven through flat metal discs.

Installation

- Entire roof deck shall be covered with two (2) plies of Bird 15 lb. Asphalt Felt, lapped nineteen (19) ins., and the nineteen (19) in. lap embedded in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft. Each sheet shall be nailed in two (2) staggered parallel rows three-quarters (¾) in. and nine (9) ins. from lower edge of the sheet, spacing the nails twelve (12) ins. center to center.
- Bird Paroid Cap Sheet shall be laid in two ply construction over the Felt, lapped nineteen (19) ins. and embedded its full width in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft.

All Felts and Cap Sheets shall be laid without wrinkles or buckles, and be turned up two (2) ins. on, but not sealed to, all vertical surfaces. All Felts and Cap Sheets shall be thoroughly broomed into the hot asphalt to secure proper bond at all points.

Flashing

(Copy from Bird Flashing Specifications.)

Bond

If desired, where Bird & Son, inc., inspection is available, the following may be added for roofs of fifty or more squares:

The Roofing Contractor shall be approved by Bird & Son, inc., and shall furnish a Bird Ten-Year Guarantee Bond to cover the roofing applied under this contract.

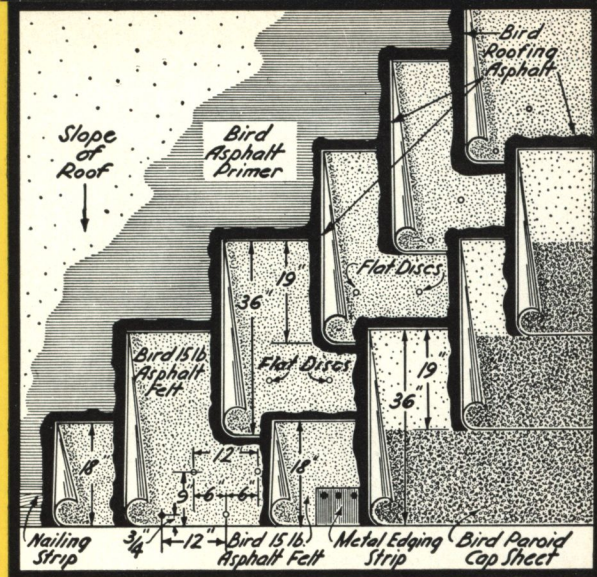
BIRD 10 YEAR BUILT-UP ROOF, ASBESTINE TALC SURFACE

Over Poured Concrete, Gypsum Decks,
or Bird Roof Insulator
Slope 1" to 6" in 1'-0"

SPECIFICATION NO. 304—TYPE 215-A-PC

BILL OF MATERIALS PER 100 SQUARE FEET

Primer—Bird Asphalt Primer	10 lbs.
Asphalt Felt—2 layers Bird 15 lb. Asphalt Felt	31 lbs.
Asphalt—Bird Roofing Asphalt	120 lbs.
Nails and Discs—1" barbed nails for wood nailing strips or 1½" cut nails for other materials, through flat tinned discs.	
Surfacing—2 layers Bird Paroid Cap Sheet	55 lbs.



When Used Over Bird Insulated Decks, No Primer Is Required

Work Included

The work proposed under this specification shall include all labor, material, equipment and services necessary for, and relevant to, the installation of Bird Specification No. (), Type () Built-up Roof and Bird Flashing (state type) to (state in detail the surfaces to be covered).

Preliminary Work by Others

The preparation of the roof deck, adjoining vertical surfaces and metal construction (unless specified in Work Included) is *not* a part of the Roofing Contract but will be installed and furnished by others and shall include the following work:

- Roof Construction—Including cants, coves or fillets, shall be properly graded to conduct all water into gutters and roof drains, leaving all surfaces smooth and clean, in a satisfactory condition to receive roofing.
- Vertical Wall Construction—Including parapet walls, curbs, etc. Non-combustible walls (brick excepted) which are to receive Bird Flashing shall be provided with a nailing strip centered five (5) ins. above roof. Curbs of similar construction shall be provided with a nailing strip at top. (Where Bird Flashings are to extend through walls or under coping, walls will be built to proper height and left ready to receive flashing.)
- Metal Construction—Including roof drains, sheet metal flanges required at pipes, vents, conductor heads or other openings through roof, etc.

Inspection of Preliminary Work

The Roofing Contractor shall examine all surfaces on which or against which his work is to be applied and shall notify the Architect or General Contractor if for any reason there are defects which he considers detrimental to the installation of his materials. He shall see to it that all defects are corrected, all surfaces properly sloped to drains, etc., and all roof surfaces clean and dry before installing his materials. Application of roofing by Roofing Contractor shall be an acceptance of surfaces.

Materials

All Roofing Materials shall be as manufactured by Bird & Son, inc., and delivered to the job in the original packages, bearing the manufacturer's labels.

Primer—Shall be Bird Asphalt Primer.

Felt—Shall be Bird 15 lb. Asphalt Felt thirty-six (36) ins. wide weighing approximately fifteen (15) lbs. per one hundred (100) sq. ft.

Cap Sheet—Shall be Bird Paroid Cap Sheet thirty-six (36) ins. wide with nineteen (19) in. selvage weighing approximately fifty-five (55) lbs. per one hundred (100) sq. ft. in place.

Asphalt—Shall be Bird No. 18 Roofing Asphalt.

Nails—For wood or wooden nailing strips shall be one (1) in. barbed nails driven through flat metal discs (or approved large head roofing nails). For gypsum or other composition decks, shall be one and one-half (1½) in. cut nails driven through flat metal discs.

Installation

- Entire surface to be roofed and flashed shall be coated with Bird Asphalt Primer and allowed to dry.
- Entire roof deck shall be covered with two (2) plies of Bird 15 lb. Asphalt Felt, lapped nineteen (19) ins., and each sheet embedded its full width in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft. Each sheet shall be nailed in two (2) staggered parallel rows three-quarters (¾) in. and nine (9) ins. from lower edge of the sheet, spacing the nails twelve (12) ins. center to center.
- Bird Paroid Cap Sheet shall be laid in two ply construction over the Felt, lapped nineteen (19) ins. and embedded its full width in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft.

All Felts and Cap Sheets shall be laid without wrinkles or buckles, and be turned up two (2) ins. on, but not sealed to, all vertical surfaces. All Felts and Cap Sheets shall be thoroughly broomed into the hot asphalt to secure proper bond at all points.

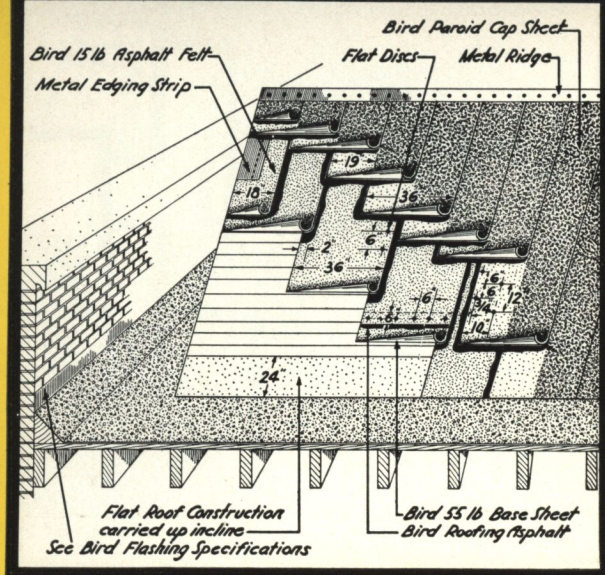
Flashing

(Copy from Bird Flashing Specifications.)

Bond

If desired, where Bird & Son, inc., inspection is available, the following may be added for roofs of fifty or more squares:

The Roofing Contractor shall be approved by Bird & Son, inc., and shall furnish a Bird Ten-Year Guarantee Bond to cover the roofing applied under this contract.



BIRD 10 YEAR BUILT-UP ROOF, ASBESTINE TALC SURFACE

Over Wood or Precast Gypsum Decks
Slope 4" up in 1'-0"

SPECIFICATION NO. 301—TYPE B-PW

BILL OF MATERIALS PER 100 SQUARE FEET

Base Sheet—1 layer Bird 55 lb. Base Sheet.....	55 lbs.
Asphalt—Bird Roofing Asphalt	60 lbs.
Nails and Discs—1" barbed nails for wood or 1½" cut nails for gypsum, through flat tinned discs.	
Surfacing—2 layers Bird Paroid Cap Sheet.....	55 lbs.

Work Included

The work proposed under this specification shall include all labor, material, equipment and services necessary for, and relevant to, the installation of Bird Specification No. (), Type () Built-up Roof and Bird Flashing (state type) to (state in detail the surfaces to be covered).

Preliminary Work by Others

The preparation of the roof deck, adjoining vertical surfaces and metal construction (unless specified in Work Included) is *not* a part of the Roofing Contract but will be installed and furnished by others and shall include the following work:

- Roof Construction—Including cants, coves or fillets, shall be properly graded to conduct all water into gutters and roof drains, leaving all surfaces smooth and clean, in a satisfactory condition to receive roofing.
- Vertical Wall Construction—Including parapet walls, curbs, etc. Non-combustible walls (brick excepted) which are to receive Bird Flashing shall be provided with a nailing strip centered five (5) ins. above roof. Curbs of similar construction shall be provided with a nailing strip at top. (Where Bird Flashings are to extend through walls or under coping, walls will be built to proper height and left ready to receive flashing.)
- Metal Construction—Including roof drains, sheet metal flanges required at pipes, vents, conductor heads or other openings through roof, etc.

Inspection of Preliminary Work

The Roofing Contractor shall examine all surfaces on which or against which his work is to be applied and shall notify the Architect or General Contractor if for any reason there are defects which he considers detrimental to the installation of his materials. He shall see to it that all defects are corrected, all surfaces properly sloped to drains, etc., and all roof surfaces clean and dry before installing his materials. Application of roofing by Roofing Contractor shall be an acceptance of surfaces.

Materials

All Roofing Materials shall be as manufactured by Bird & Son, inc., and delivered to the job in the original packages, bearing the manufacturer's labels.

Base Sheet—Shall be Bird 55 lb. Base Sheet for Built-up Roofs,

thirty-six (36) ins. wide weighing approximately fifty-five (55) lbs. per one hundred (100) sq. ft.

Cap Sheet—Shall be Bird Paroid Cap Sheet thirty-six (36) ins. wide with nineteen (19) in. selvage weighing approximately fifty-five (55) lbs. per one hundred (100) sq. ft. in place.

Asphalt—Shall be Bird No. 18 Roofing Asphalt.

Nails—For wood or wooden nailing strips shall be one (1) in. barbed nails driven through flat metal discs (or approved large head roofing nails). For gypsum or other composition decks, shall be one and one-half (1½) in. cut nails driven through flat metal discs.

Installation

- Entire surface shall be covered with one (1) layer of Bird 55 lb. Base Sheet lapped two (2) ins. at edges and six (6) ins. at ends. Laps shall be cemented with hot Bird Roofing Asphalt No. 18 and nailed on six (6) in. centers.
- Bird Paroid Cap Sheet shall be laid in two ply construction over the Base Sheet, lapped nineteen (19) ins. and embedded its full width in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft. The felt, or selvage portion of the Cap Sheet, shall be nailed in two (2) staggered parallel rows three-quarters (¾) in. and ten (10) ins. from edge, spacing nails twelve (12) ins. center to center.

Note: On inclines under three (3) ins. per foot, Base Sheet and Cap Sheet shall be laid perpendicular to the pitch. On inclines over three (3) ins. per foot, Base Sheet and Cap Sheet shall be laid parallel with the pitch.

All Base Sheets and Cap Sheets shall be laid without wrinkles or buckles, and be turned up two (2) ins. on, but not sealed to, all vertical surfaces. All Felts and Cap Sheets shall be thoroughly broomed into the hot asphalt to secure proper bond at all points.

Flashing

(Copy from Bird Flashing Specifications.)

Bond

If desired, where Bird & Son, inc., inspection is available, the following may be added for roofs of fifty or more squares:

The Roofing Contractor shall be approved by Bird & Son, inc., and shall furnish a Bird Ten-Year Guarantee Bond to cover the roofing applied under this contract.

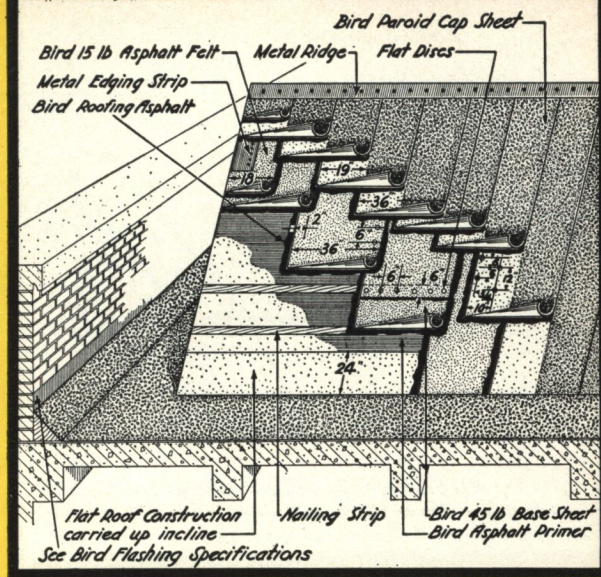
BIRD 10 YEAR BUILT-UP ROOF, ASBESTINE TALC SURFACE

Over Poured Concrete, Gypsum Decks,
or Bird Roof Insulator
Slope 4" up in 1'-0"

SPECIFICATION NO. 302—TYPE B-PC

BILL OF MATERIALS PER 100 SQUARE FEET

Primer—Bird Asphalt Primer	10 lbs.
Base Sheet—1 layer Bird 45 lb. Base Sheet	45 lbs.
Asphalt—Bird Roofing Asphalt	90 lbs.
Nails and Discs—1" barbed nails for wood nailing strips or 1½" cut nails for other materials, through flat tinned discs.	55 lbs.
Surfacing—2 layers Bird Paroid Cap Sheet	



When Used Over Bird Insulated Decks, No Primer Is Required

Work Included

The work proposed under this specification shall include all labor, material, equipment and services necessary for, and relevant to, the installation of Bird Specification No. (), Type () Built-up Roof and Bird Flashing (state type) to (state in detail the surfaces to be covered).

Preliminary Work by Others

The preparation of the roof deck, adjoining vertical surfaces and metal construction (unless specified in Work Included) is *not* a part of the Roofing Contract but will be installed and furnished by others and shall include the following work:

- Roof Construction—Including cants, coves or fillets, shall be properly graded to conduct all water into gutters and roof drains, leaving all surfaces smooth and clean, in a satisfactory condition to receive roofing.
- Vertical Wall Construction—Including parapet walls, curbs, etc. Non-combustible walls (brick excepted) which are to receive Bird Flashing shall be provided with a nailing strip centered five (5) ins. above roof. Curbs of similar construction shall be provided with a nailing strip at top. (Where Bird Flashings are to extend through walls or under coping, walls will be built to proper height and left ready to receive flashing.)
- Metal Construction—Including roof drains, sheet metal flanges required at pipes, vents, conductor heads or other openings through roof, etc.

Inspection of Preliminary Work

The Roofing Contractor shall examine all surfaces on which or against which his work is to be applied and shall notify the Architect or General Contractor if for any reason there are defects which he considers detrimental to the installation of his materials. He shall see to it that all defects are corrected, all surfaces properly sloped to drains, etc., and all roof surfaces clean and dry before installing his materials. Application of roofing by Roofing Contractor shall be an acceptance of surfaces.

Materials

All Roofing Materials shall be as manufactured by Bird & Son, inc., and delivered to the job in the original packages, bearing the manufacturer's labels.

Primer—Shall be Bird Asphalt Primer.

Base Sheet—Shall be Bird 45 lb. Base Sheet for Built-up Roofs,

thirty-six (36) ins. wide weighing approximately forty-five (45) lbs. per one hundred (100) sq. ft.

Cap Sheet—Shall be Bird Paroid Cap Sheet thirty-six (36) ins. wide with nineteen (19) in. selvage weighing approximately fifty-five (55) lbs. per one hundred (100) sq. ft. in place.

Asphalt—Shall be Bird No. 18 Roofing Asphalt.

Nails—For wood or wooden nailing strips shall be one (1) in. barbed nails driven through flat metal discs (or approved large head roofing nails). For gypsum or other composition decks, shall be one and one-half (1½) in. cut nails driven through flat metal discs.

Installation

- Entire surface to be roofed and flashed shall be coated with Bird Asphalt Primer and allowed to dry.
- Entire roof surface shall be covered with one (1) layer of Bird 45 lb. Base Sheet embedded full width in Bird Roofing Asphalt No. 18 and lapped two (2) in. at edges and six (6) ins. at ends. Laps shall be cemented with hot Bird Roofing Asphalt No. 18, and nailed on six (6) in. centers.
- Bird Paroid Cap Sheet shall be laid in two ply construction over the Base Sheet, lapped nineteen (19) ins. and embedded its full width in Bird Roofing Asphalt No. 18 applied at the rate of thirty (30) lbs. of Roofing Asphalt per mopping per one hundred (100) sq. ft. The felt, or selvage portion of the Cap Sheet, shall be nailed in two (2) staggered parallel rows three-quarters (¾) in. and ten (10) ins. from edge, spacing nails twelve (12) ins. center to center.

Note: On inclines under three (3) ins. per foot, Base Sheet and Cap Sheet shall be laid perpendicular to the pitch. On inclines over three (3) ins. per foot, Base Sheet and Cap Sheet shall be laid parallel with the pitch.

All Base Sheets and Cap Sheets shall be laid without wrinkles or buckles, and be turned up two (2) ins. on, but not sealed to, all vertical surfaces. All Felts and Cap Sheets shall be thoroughly broomed into the hot asphalt to secure proper bond at all points.

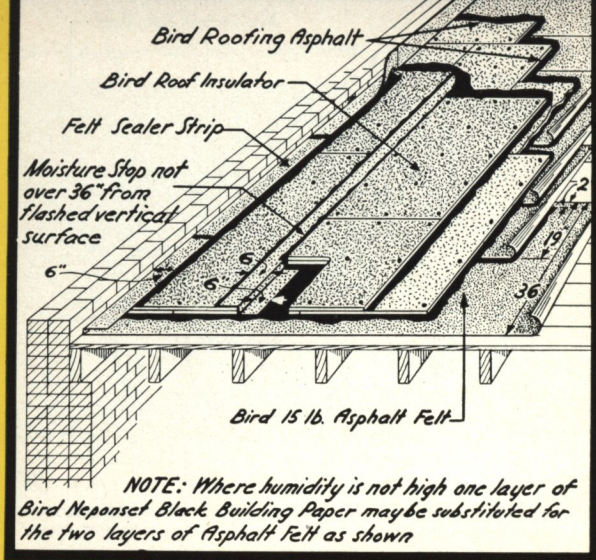
Flashing

(Copy from Bird Flashing Specifications.)

Bond

If desired, where Bird & Son, inc., inspection is available, the following may be added for roofs of fifty or more squares:

The Roofing Contractor shall be approved by Bird & Son, inc., and shall furnish a Bird Ten-Year Guarantee Bond to cover the roofing applied under this contract.



BIRD INSULATION FOR HIGH AND LOW HUMIDITY CONDITIONS

Over Wood or Precast Gypsum Decks For Installation Under Bird Built-up Roof

SPECIFICATION NO. 400

Materials

All Asphalt, Building Paper, Asphalt Felt, Rosin Sized Sheathing, and Roof Insulator, shall be those manufactured by Bird & Son, inc., and shall be delivered to the job in the original packages bearing the manufacturer's label.

Note: Bird Roof Insulator is made in sheets 24 ins. x 47 ins. All sheets are 7/16 in. thick.

Bond

Where Roof Insulation is to be covered by a Bird Bonded Built-up Roof and in locations where Bird & Son, inc., inspection is available, the following may be added:

The Roofing Contractor shall furnish a Bird (state number of years Bond is to run) Year Bond to cover the Roofing to be applied over the Roof Insulation included in this contract.

INSTALLATION FOR HIGH HUMIDITY CONDITIONS

(1) Preparation of Roof Deck to Receive Insulation—

Two (2) plies of Bird 15 lb. Asphalt Felt shall be laid over entire roof deck, lapped nineteen (19) ins. and each lap shall be sealed with Bird Roofing Asphalt, keeping Bird Roofing Asphalt back two (2) ins. from edge of underlying sheet. These sheets shall be spot-nailed sufficiently to hold sheets in place.

Note: Where Bird 15 lb. Tarred Felt and Pitch are used in place of Bird 15 lb. Asphalt Felt and Bird Roofing Asphalt, roof deck shall be covered with one (1) ply of Bird 30 lb. Rosin Sized Sheathing lapped two (2) ins. and nailed twelve (12) ins. on centers. Application of Bird 15 lb. Tarred Felt shall follow procedure as above.

(2) Sealing Strip—

The underlying sheets shall extend up six (6) in. plus thickness of Roof Insulation on all walls and vertical surfaces and shall finally be turned over on, and solidly mopped to, top surface of Bird Roof Insulator when laid.

(3) Application of One or More Layers of Insulation—

Bird Roof Insulator shall be applied directly over the Asphalt Felt, embedding each sheet its full width in a hot mopping of Bird Roofing Asphalt applied at the rate of thirty (30) lbs. per mopping per one hundred (100) sq. ft., breaking joints both between sheets in same layer and sheets in successive layers.

(3a) *For One Layer*—Each sheet of Bird Roof Insulator shall be nailed through into sheathing, using one and one-half (1½) in. galvanized Roofing Nails spaced twelve (12) ins. on centers, firmly securing all edges and intermediate points.

(3b) *For Two or More Layers*—First layer of Bird Roof Insulator

shall be nailed with only sufficient nails to hold sheet in place. Successive layers of Bird Roof Insulator shall be laid, embedding each sheet in a hot mopping of Bird Roofing Asphalt, and breaking joints with preceding layer. Final layer of Bird Roof Insulator shall be nailed through to roof deck, using approved large head galvanized Roofing Nails sufficiently long to penetrate at least three-quarters (¾) in. into wooden roof deck below. Nails shall be placed along all edges and at intermediate points, spaced twelve (12) ins. on centers and not more than two (2) ins. from edge of sheet carrying one (1) row of nails staggered longitudinally through center of each sheet.

(4) Moisture Stop—

(4a) Roof area shall be divided up into sections not more than twenty-four (24) ft. square by means of twelve (12) in. strips of Bird 15 lb. Asphalt Felt cemented to roof deck below, carried up and over Insulation and cemented to top ply of Bird Roof Insulator. These Moisture Stops shall begin not further than thirty-six (36) ins. from all vertical flashed surfaces and shall be carried out in such a manner that moisture seepage in from a flashed surface will be checked by Moisture Stop before it has traversed more than thirty-six (36) ins. from vertical surface.

(4b) All exposed edges of Insulation at eaves, gable ends, etc., shall be sealed by mopping one (1) ply of Bird 15 lb. Asphalt Felt up and over the exposed edge and to top of the final layer of Bird Roof Insulator.

INSTALLATION FOR LOW HUMIDITY CONDITIONS

Change paragraph (1) above to read as follows:

(1) Preparation of Roof Deck to Receive Insulation—

Entire roof deck shall be covered with one (1) layer of Bird

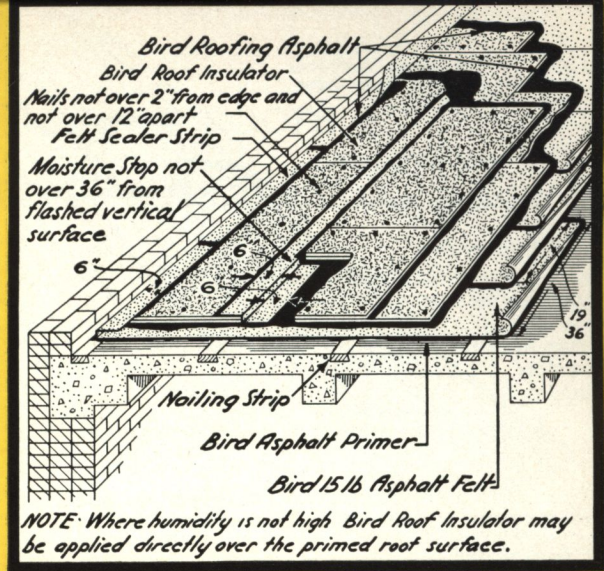
Neponset Black Building Paper, lapped six (6) ins. Laps shall be nailed sufficiently to hold sheets in place.

(Balance of specification remains the same.)

BIRD INSULATION FOR HIGH AND LOW HUMIDITY CONDITIONS

Over Concrete Decks For Installation Under Bird Built-up Roof

SPECIFICATION NO. 401



Materials

All Asphalt Primer, Asphalt, Building Paper, Asphalt Felt, Rosin Sized Sheathing, and Roof Insulator shall be those manufactured by Bird & Son, inc., and shall be delivered to the job in the original packages bearing the manufacturer's label.

Note: Bird Roof Insulator is made in sheets 24 ins. x 47 ins. All sheets are 7/16 in. thick.

Bond

Where Roof Insulation is to be covered by a Bird Bonded Built-up Roof and in locations where Bird & Son, inc., inspection is available, the following may be added:

The Roofing Contractor shall furnish a Bird (state number of years Bond is to run) Year Bond to cover the Roofing to be applied over the Roof Insulation included in this contract.

INSTALLATION FOR HIGH HUMIDITY CONDITIONS

(1) Preparation of Roof Deck to Receive Insulation—

Entire concrete deck shall be primed with one (1) coat of Bird Asphalt Primer and dried prior to the installation of Bird Roof Insulator.

(2) Application of One or More Layers of Asphalt Felt—

Primed roof deck shall be covered with two (2) layers of Bird 15 lb. Asphalt Felt, lapped nineteen (19) ins. and thoroughly embedded in hot Bird Roofing Asphalt. These waterproof sheets shall extend up six (6) ins. plus thickness of Roof Insulation on all walls and vertical surfaces and shall finally be turned over on, and solidly mopped to, top surface of Bird Roof Insulator when laid.

(3) Application of One or More Layers of Insulation—

The first layer of Bird Roof Insulator shall be applied directly over this protected roof deck, embedding the sheet in a hot mopping of Bird Roofing Asphalt applied at the rate of thirty (30) lbs. per mopping per one hundred (100) sq. ft., breaking joints both between sheets of the same layer and sheets in successive layers. The upturned edges of the waterproof sheets shall then be mopped solidly to top of final layer of Bird Roof Insulator.

(3a) For One Layer—Where roof deck permits nailing, each sheet of Bird Roof Insulator shall be nailed through to the roof deck, spacing nails twelve (12) ins. on centers, firmly securing all edges and intermediate points.

(3b) For Two or More Layers—First layer of Bird Roof Insulator shall be nailed with only sufficient nails to hold sheet in place. Successive layers of Bird Roof Insulator shall be laid, embedding each sheet in a hot mopping of Bird Roofing Asphalt, and breaking joints with preceding layer. Final layer of Bird Roof Insulator shall be nailed through to roof deck, using approved large head galvanized Roofing Nails sufficiently long to penetrate at least three-quarters (¾) in. into wooden nailing strip embedded in the concrete roof deck. Nails shall be placed along all edges and at intermediate points, spaced twelve (12) ins. on centers and not more than two (2) ins. from edge of sheet (where character of deck permits).

(4) Moisture Stop—

(4a) Roof area shall be divided up into sections not more than twenty-four (24) ft. square by means of twelve (12) in. strips of Bird 15 lb. Asphalt Felt cemented to roof deck below, carried up and over Insulation and cemented to top ply of Bird Roof Insulator. These Moisture Stops shall begin not further than thirty-six (36) ins. from all vertical flashed surfaces and shall be carried out in such a manner that moisture seepage in from a flashed surface will be checked by Moisture Stop before it has traversed more than thirty-six (36) ins. from vertical surface.

(4b) All exposed edges of Insulation at eaves, gable ends, etc., shall be sealed by mopping one (1) ply of Bird 15 lb. Asphalt Felt up and over the exposed edge and to top of the final layer of Bird Roof Insulator.

INSTALLATION FOR LOW HUMIDITY CONDITIONS

Add to paragraph (1) above the following paragraph (1a):

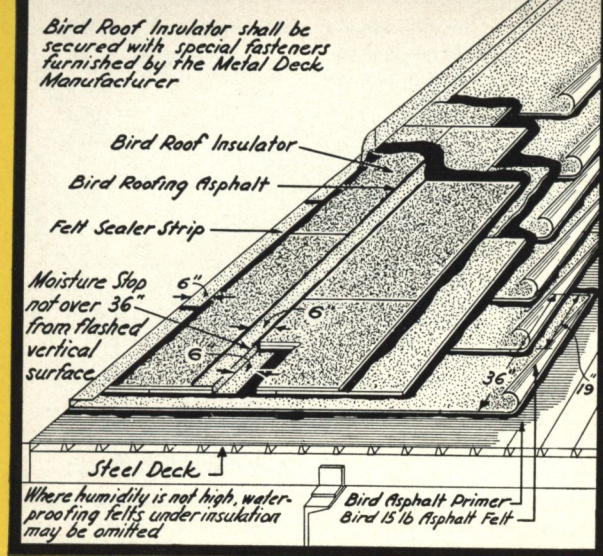
(1a) Sealing Strip—Where insulation occurs against a vertical wall, a Sealing Strip of Bird 15 lb. Asphalt Felt shall be laid over the priming coat to extend six (6) ins. on the deck and six (6) ins. up against the vertical wall, and shall finally be turned over on, and solidly mopped to, top surface of Bird Roof Insulator when laid.

Omit paragraph (2) above and change paragraph (3) above to read as follows:

(3) Application of One or More Layers of Insulation—

Bird Roof Insulator shall be applied directly over the primed roof deck, embedding each sheet in a hot mopping of Bird Roofing Asphalt applied at the rate of thirty (30) lbs. per mopping per one hundred (100) sq. ft., breaking joints both between sheets of the same layer and sheets in successive layers.

(Balance of specification remains the same.)



BIRD INSULATION FOR HIGH AND LOW HUMIDITY CONDITIONS

Over Steel Decks For Installation Under Bird Built-up Roof

SPECIFICATION NO. 402

Materials

All Asphalt Primer, Asphalt, Asphalt Felt, and Roof Insulator shall be those manufactured by Bird & Son, inc., and shall be delivered to the job in the original packages bearing the manufacturer's label.

Note: Bird Roof Insulator is made in sheets 24 ins. x 47 ins. All sheets are 7/16 in. thick.

Bond

Where Roof Insulation is to be covered by a Bird Bonded Built-up Roof and in locations where Bird & Son, inc., inspection is available, the following may be added:

The Roofing Contractor shall furnish a Bird (state number of years Bond is to run) Year Bond to cover the Roofing to be applied over the Roof Insulation included in this contract.

INSTALLATION FOR HIGH HUMIDITY CONDITIONS

(1) Preparation of Roof Deck to Receive Insulation—

Entire steel deck shall be primed with one (1) coat of Bird Asphalt Primer and dried prior to the installation of Bird Roof Insulator. Primer will not be required on decks which have been finished with a shop coat of paint.

(2) Application of One or More Layers of Asphalt Felt—

Primed roof deck shall be covered with two (2) layers of Bird 15 lb. Asphalt Felt, lapped nineteen (19) ins. and thoroughly embedded in hot Bird Roofing Asphalt.

These waterproof sheets shall extend up six (6) ins. plus thickness of Roof Insulation on all walls and vertical surfaces and shall finally be turned over on, and solidly mopped to, the top surface of Bird Roof Insulator when laid.

(3) Application of One or More Layers of Insulation—

Bird Roof Insulator shall be applied directly over this protected roof deck, embedding each sheet its full width in a hot mopping of Bird Roofing Asphalt applied at the rate of thirty (30) lbs. per mopping per one hundred (100) sq. ft., breaking joints both between sheets of the same layer and sheets in successive layers. The upturned edges of water-

proof sheets shall then be mopped solidly to top of the final layer of Bird Roof Insulator.

(3a) *Special Screws, Nails, etc.*—Each sheet of Bird Roof Insulator shall be securely fastened to the metal deck by means of special screws, nails, etc., furnished by the steel deck manufacturer and as agreed upon by the architect.

(4) Moisture Stop—

(4a) Roof area shall be divided up into sections not more than twenty-four (24) ft. square by means of twelve (12) in. strips of Bird 15 lb. Asphalt Felt cemented to roof deck below, carried up and over Insulation and cemented to top ply of Bird Roof Insulator. These Moisture Stops shall begin not further than thirty-six (36) ins. from all vertical flashed surfaces and shall be carried out in such a manner that moisture seepage in from a flashed surface will be checked by Moisture Stop before it has traversed more than thirty-six (36) ins. from vertical surface.

(4b) All exposed edges of Insulation at eaves, gable ends, etc., shall be sealed by mopping one (1) ply of Bird 15 lb. Asphalt Felt up and over the exposed edge and to top of the final layer of Bird Roof Insulator.

INSTALLATION FOR LOW HUMIDITY CONDITIONS

Add to paragraph (1) above the following paragraph (1a):

(1a) *Sealing Strip*—Where insulation occurs against a vertical wall, a Sealing Strip of Bird 15 lb. Asphalt Felt shall be laid over the priming coat to extend six (6) ins. on the deck and six (6) ins. up against the vertical wall, and shall finally be turned over on, and solidly mopped to, top surface of Bird Roof Insulator when laid.

Omit paragraph (2) above and change paragraph (3) above to read as follows:

(3) Application of One or More Layers of Insulation—

Bird Roof Insulator shall be applied directly over the primed steel deck, embedding each sheet its full width in a hot mopping of Bird Roofing Asphalt applied at the rate of thirty (30) lbs. per mopping per one hundred (100) sq. ft., breaking joints between sheets in same layer and sheets in successive layers.

(Balance of specification remains the same.)

BIRD FLASHINGS WITH BIRD BUILT-UP ROOFS

Where Sheet Metal Base and Cap Flashing Are Specified

SPECIFICATION NO. 5

Preliminary

All Felts, Base Sheets and Cap Sheets shall be cut off at the wall line without turning up.

Flashing shall be installed before the application of gravel, slag or tile to the roof surface.

Preparation of Surfaces to Be Flashing

All metal to which Asphalt is to be applied shall be coated with Bird Asphalt Primer and allowed to dry.

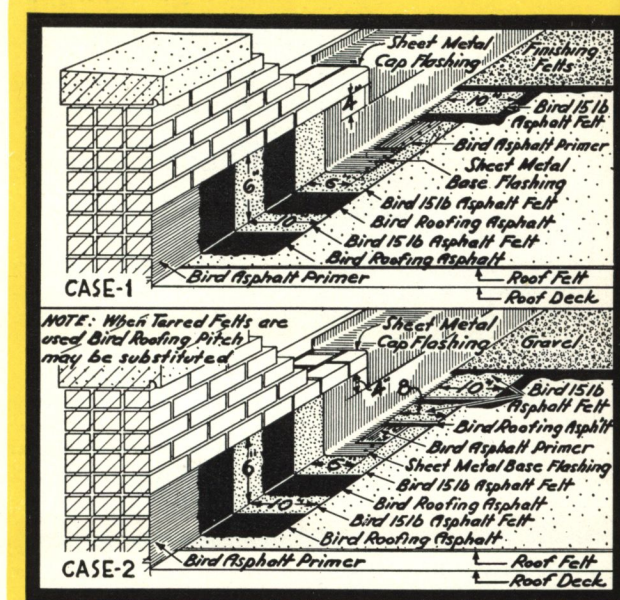
All masonry surfaces to be flashed shall be coated with Bird Asphalt Primer and allowed to dry.

Application of Base Flashing

- (1) **Case I**—Where roofing is composed of a heavy Base Sheet or a Base Course of 15 lb. Asphalt Felts, the Base Flashing shall be installed directly over the Base Felts and under the Finishing Felts or Cap Sheets.
 - (1a) Two (2) layers of Bird 15 lb. Asphalt Felt extending six (6) ins. up on vertical wall and ten (10) ins. out on roof, shall be applied, embedding each in a hot mopping of Bird Roofing Asphalt.
 - (1b) Sheet Metal Base Flashing shall extend not less than six (6) ins. up on vertical wall and not less than six (6) ins. out on roof over the base felts. The angle formed in the flashing shall not be sharply bent but shall be rounded and the flashing shall be nailed along its edge into deck or wood nailing strips provided therein.
 - (1c) Where asphalt is used, metal flashing on the deck shall be primed with Bird Asphalt Primer and allowed to dry.
 - (1d) A ten (10) in. strip of Bird 15 lb. Asphalt Felt shall be embedded in a hot mopping of Bird Roofing Asphalt over the metal flashing extending on the roof. Finishing Felts as called for in Roofing Specification shall then be applied over the above Felt Strip.
- (2) **Case II**—Where Roofing Felts are laid in shingle construction, Base Flashing shall be installed after all Roofing Felts have been laid and before application of Asphalt or Pitch, gravel or slag surfacing.

Note: In roofs employing Pitch, either Bird Roofing Asphalt or Bird Roofing Pitch may be used in the construction of flashings where Asphalt Mopping is specified.

- (2a) Two (2) layers of Bird 15 lb. Asphalt Felt extending six (6) ins. up on vertical wall and ten (10) ins. out on roof, shall be applied, embedding each in a hot mopping of Bird Roofing Asphalt.



- (2b) Sheet Metal Base Flashing shall extend not less than six (6) ins. up on vertical wall and not less than six (6) ins. out on roof over the base felts. The angle formed in flashing shall not be sharply bent but shall be rounded and the flashing shall be nailed along its edge into deck or wood nailing strips provided therein.
- (2c) Where asphalt is used, metal flashing on the deck shall be primed with Bird Asphalt Primer and allowed to dry.
- (2d) An eight (8) in. strip and a ten (10) in. strip of Bird 15 lb. Asphalt Felt shall be embedded in a hot mopping of Bird Roofing Asphalt over the metal flashing extending on the roof. The roof shall then be finished over the Felt Strip with gravel, slag or tile as called for in Roofing Specification.

Application of Cap Flashing

Metal Cap Flashing shall be bent down over the Base Flashing so that Cap Flashing shall lap Base Flashing four (4) ins.

Where Raggle Block Is Specified

SPECIFICATION NO. 6

Preliminary

The Raggle Block shall be set in masonry wall with the bottom of the Raggle Block in a line five (5) ins. from, and parallel with, the grade line of roof at wall. Raggle Block shall be set in Portland Cement mortar with all joints properly pointed, and the groove shall be thoroughly cleaned of any foreign material.

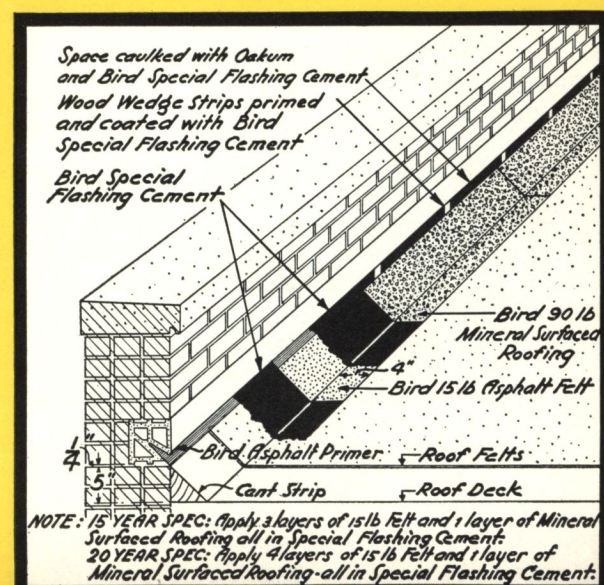
Cant Strips, constructed of material that will permit nailing, shall be installed at the angle formed by intersection of vertical surface with the roof deck. Upper edge of Cant Strip shall be approximately one-quarter ($\frac{1}{4}$) in. below groove of Raggle Block. Face of Cant Strip shall be built parallel with bottom of groove of the Raggle Block.

All Roofing Felts, Base Sheets and Cap Sheets shall be laid before the Flashing is applied and shall be carried up to top of the cant and cut off at the wall line.

Flashing shall be installed before the application of gravel, slag or tile to roof surface.

Application of Flashing

- (1) A coat of Bird Asphalt Primer shall be applied to groove of Raggle Block and allowed to dry.



- (2) A layer of Bird Special Flashing Cement approximately one-eighth ($\frac{1}{8}$) in. thick shall be applied for full depth of the groove of Raggle Block and over roofing felts to a point on deck four (4) ins. from bottom of Cant Strip.
- (3) One (1) layer of Bird 15 lb. Asphalt Felt and one (1) layer of Bird 90 lb. Mineral Surfaced Roofing shall be cut into suitable widths to extend from back of groove of Raggle Block out on the roof four (4) ins.
- (4) The Bird 15 lb. Asphalt Felt shall be embedded in the Special Flashing Cement.
- (5) The Asphalt Felt shall be coated with a layer of Bird Special Flashing Cement. The Mineral Surfaced Roofing shall be em-

bedded in the Special Flashing Cement, breaking joints with the previously applied 15 lb. Asphalt Felt. End laps shall be not less than three (3) ins.

- (6) Wood wedge strips, primed and coated with Bird Special Flashing Cement shall be driven into flashing groove on twelve (12) in. centers and at all laps. Remaining space in flashing groove shall be caulked with Bird Special Flashing Cement.

Note: 15 Year Roof—Three (3) layers of Bird 15 lb. Asphalt Felt and one (1) layer of Mineral Surfaced Roofing shall all be embedded in Bird Special Flashing Cement.

20 Year Roof—Four (4) layers of Bird 15 lb. Asphalt Felt and one (1) layer of Mineral Surfaced Roofing shall all be embedded in Bird Special Flashing Cement.

Where Flashing Is Not Less Than 8" High

SPECIFICATION NO. 1

Preliminary

Cant Strips constructed of material that will permit nailing, shall be installed at the angle formed by intersection of vertical surface with roof. Cant Strip shall extend up the vertical surface approximately four (4) ins. and have an angle of forty-five (45) degrees with the vertical. All measurements "Up" on the vertical surfaces and "Out" on the roof deck shall be made from line of intersection of cant with the vertical surface and the line of intersection of cant with the roof surface, respectively.

All Roofing Felts, Base Sheets and Cap Sheets shall be laid before the Flashing is applied and shall be brought up the face of cant

and turned up two (2) ins. on, but not cemented to, all vertical surfaces to be flashed.

Flashing shall be installed before application of gravel, slag or tile to the roof surface.

Preparation of Surfaces to Be Flashing

All masonry surfaces to be flashed shall be coated with Bird Asphalt Primer and allowed to dry.

Application of Base Flashing

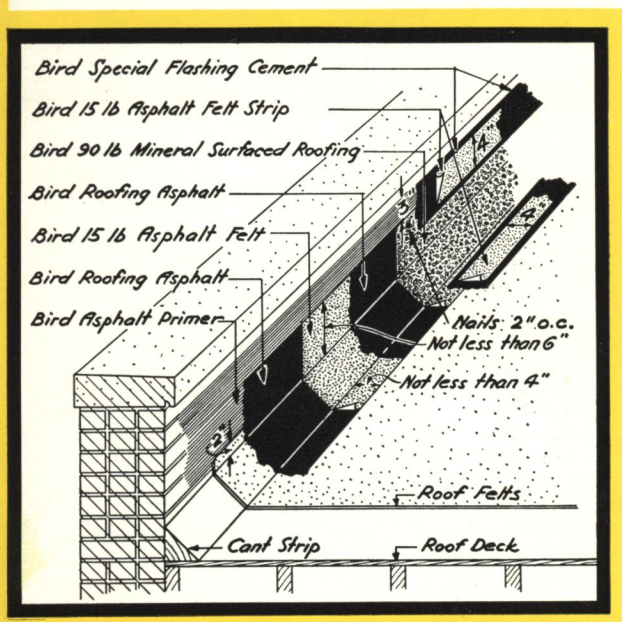
- (1) Base Flashing shall be composed of one (1) layer of Bird 15 lb. Asphalt Felt and one (1) layer of Bird 90 lb. Mineral Surfaced Roofing cemented to underlying surface and together with hot moppings of Bird Roofing Asphalt.

Note: In roofs employing Pitch, either Asphalt or Pitch may be used where Asphalt Mopping is specified.

- (2) Base Flashing shall extend not less than six (6) ins. up on vertical surfaces and not less than four (4) ins. out on roof and shall be nailed adjacent to its upper edge and at end laps with approved large head galvanized nails spaced two (2) ins. center to center.
- (3) Edge of Base Flashing on roof shall be covered with a four (4) in. wide strip of Bird 15 lb. Asphalt Felt embedded in and coated over with Bird Roofing Asphalt.
- (4) End joints of Base Flashing shall be covered with a trowelled coat of Bird Special Flashing Cement into which shall be embedded a four (4) in. wide strip of Bird 15 lb. Asphalt Felt. Felt Strip shall be finished with a second trowelled coat of Bird Special Flashing Cement.

Application of Cap Flashing

- (1) A layer of Bird Special Flashing Cement approximately one-eighth ($\frac{1}{8}$) in. thick and not less than five (5) ins. wide shall be trowelled on to cover nail heads, the upper edge of Base Flashing and the adjoining wall surface.
- (2) A strip of Bird 15 lb. Asphalt Felt four (4) ins. wide shall be embedded in the Special Flashing Cement and an additional layer of Special Flashing Cement shall be trowelled on over the felt and finished to a feather edge and a straight line.
- (3) If a sheet metal cap flashing is specified, the above Cap Flashing shall extend to where such metal projects from wall.



Where Flashing Covers the Entire Inside Wall and Top Wall Under Coping

SPECIFICATION NO. 2

Preliminary

Cant Strips constructed of material that will permit nailing, shall be installed at the angle formed by intersection of vertical surface with roof. Cant Strip shall extend up the vertical surface approximately four (4) ins. and have an angle of forty-five (45) degrees with the vertical. All measurements "Up" on vertical surfaces and "Out" on roof deck shall be made from line of intersection of cant with vertical surface and the line of intersection of cant with roof surface respectively.

All Roofing Felts, Base Sheets and Cap Sheets shall be laid before the Flashing is applied and shall be brought up the face of cant and turned up two (2) ins. on, but not cemented to, all vertical surfaces to be flashed.

Flashing shall be installed before application of gravel, slag or tile to the roof surface.

Preparation of Surfaces to Be Flashing

All masonry surfaces to be flashed shall be coated with Bird Asphalt Primer and allowed to dry.

Application of Base Flashing

- (1) Base Flashing shall be composed of one (1) layer of Bird 15 lb. Asphalt Felt and one (1) layer of Bird 90 lb. Mineral Surfaced Roofing cemented to underlying surface and together with hot moppings of Bird Roofing Asphalt.

Note: In roofs employing Pitch, either Asphalt or Pitch may be used where Asphalt Mopping is specified.

- (2) Base Flashing shall extend not less than six (6) ins. up on vertical surfaces and not less than four (4) ins. out on roof and shall be nailed adjacent to its upper edge and at end laps with approved large head galvanized nails spaced two (2) ins. center to center.
- (3) Edge of Base Flashing on roof shall be covered with a four (4) in. wide strip of Bird 15 lb. Asphalt Felt embedded in and coated over with Bird Roofing Asphalt.

- (4) End joints of Base Flashing shall be covered with a trowelled coat of Bird Special Flashing Cement into which shall be embedded a four (4) in. wide strip of Bird 15 lb. Asphalt Felt. Felt Strip shall be finished with a second trowelled coat of Bird Special Flashing Cement.

Application of Cap Flashing

- (1) A layer of Bird Special Flashing Cement approximately one-eighth ($\frac{1}{8}$) in. thick shall be trowelled on to cover nail heads, the upper edge of Base Flashing, the entire inner face of wall and top of wall under coping to within two (2) ins. of outside face of wall.
- (2) A strip of Bird Saturated Fabric eight (8) ins. wide shall be embedded in the Special Flashing Cement along the inner top corner of wall so that it shall extend four (4) ins. on top of wall and four (4) ins. on face of wall. This reinforcing Fabric Strip shall then be coated with Bird Special Flashing Cement.
- (3) A strip of Bird 90 lb. Mineral Surfaced Roofing, wide enough to extend from within two (2) ins. of outside wall under the coping and down to cover the Base Flashing at least three (3) ins., shall be embedded in Bird Special Flashing Cement.

Alternate Specification: Bird 15 lb. Asphalt Felt, coated with Bird Special Flashing Cement may be used instead of Bird 90 lb. Mineral Surfaced Roofing in the above Cap Flashing Specification.

Where Flashing Is Not Less Than 8" High With Cap Flashing Extending Through Wall

SPECIFICATION NO. 3

Preliminary

Cant Strips constructed of material that will permit nailing, shall be installed at the angle formed by intersection of vertical surface with roof. Cant Strip shall extend up the vertical surface approximately four (4) ins. and have an angle of forty-five (45) degrees with the vertical. All measurements "Up" on the vertical surfaces and "Out" on the roof deck shall be made from line of intersection of cant with the vertical surface and the line of intersection of cant with the roof surface, respectively.

All Roofing Felts, Base Sheets and Cap Sheets shall be laid before the Flashing is applied and shall be brought up the face of cant and turned up two (2) ins. on, but not cemented to, all vertical surfaces to be flashed.

Flashing shall be installed before application of gravel, slag or tile to the roof surface.

Preparation of Surfaces to Be Flashing

All masonry surfaces to be flashed shall be coated with Bird Asphalt Primer and allowed to dry.

Application of Base Flashing

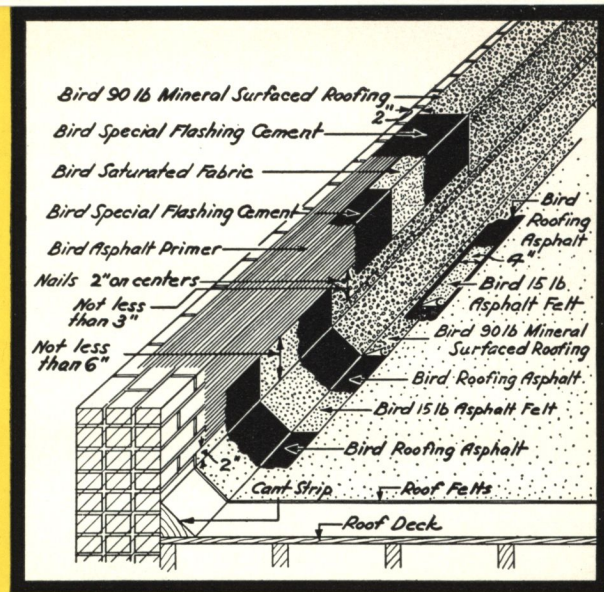
- (1) Base Flashing shall be composed of one (1) layer of Bird 15 lb. Asphalt Felt and one (1) layer of Bird 90 lb. Mineral Surfaced Roofing cemented to underlying surface and together with hot moppings of Bird Roofing Asphalt.

Note: In roofs employing Pitch, either Asphalt or Pitch may be used where Asphalt Mopping is specified.

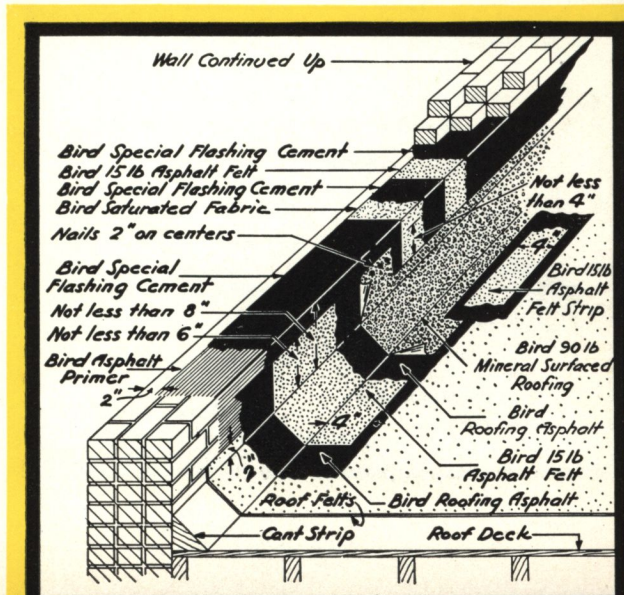
- (2) Base Flashing shall extend not less than six (6) ins. up on vertical surfaces and not less than four (4) ins. out on roof and shall be nailed adjacent to its upper edge and at end laps with approved large head galvanized nails spaced two (2) ins. center to center.
- (3) Edge of Base Flashing on roof shall be covered with a four (4) in. wide strip of Bird 15 lb. Asphalt Felt embedded in and coated over with Bird Roofing Asphalt.
- (4) End joints of Base Flashing shall be covered with a trowelled coat of Bird Special Flashing Cement into which shall be embedded a four (4) in. wide strip of Bird 15 lb. Asphalt Felt. Felt Strip shall be finished with a second trowelled coat of Bird Special Flashing Cement.

Application of Cap Flashing

- (1) The construction of vertical wall shall be stopped at elevation at which the Cap Flashing is to be installed and shall be finished smooth on top. This top finish shall then be coated with a layer of Bird Special Flashing Cement approximately one-eighth ($\frac{1}{8}$) in. thick, extending to within two (2) ins. of outside face of wall.



- (2) A strip of Bird Saturated Fabric wide enough to cover the cemented portion of top of wall and to extend out from inside face of wall far enough to cover top of base flashing four (4) ins., shall be embedded in the Bird Special Flashing Cement.
- (3) A second layer of Bird Special Flashing Cement shall be applied to part of Saturated Fabric embedded on top of wall.
- (4) A strip of Bird 15 lb. Asphalt Felt, the same width as the Saturated Fabric and extending out from wall as does the Fabric, shall be embedded in Bird Special Flashing Cement.
- (5) The Felt on top of wall shall then be coated with a layer of Bird Special Flashing Cement and the portion of fabric and felt extending from wall shall be protected so that it will not be damaged during the completion of the wall.
- (6) After Base Flashing has been installed, a layer of Bird Special Flashing Cement extending from where Cap Flashing leaves the wall down over the upper edge of Base Flashing, at least four (4) ins., shall be applied.
- (7) The Saturated Fabric of the Cap Flashing shall next be embedded in Bird Special Flashing Cement.
- (8) A second layer of Bird Special Flashing Cement shall be applied over the Saturated Fabric.
- (9) The Bird 15 lb. Asphalt Felt of the Cap Flashing shall also be embedded in the Bird Special Flashing Cement.
- (10) A layer of Bird Special Flashing Cement shall be trowelled over the Asphalt Felt and finished to a feather edge and to a straight line.

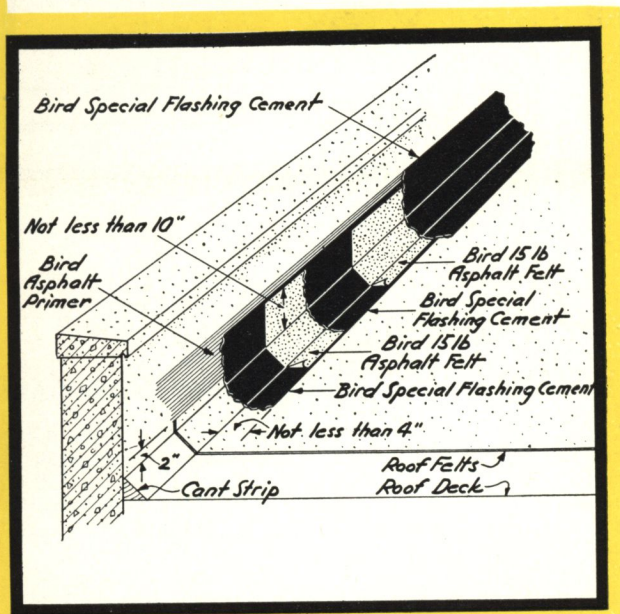


Where No Nailing Facilities Are Provided

SPECIFICATION NO. 4

Preliminary

Cant Strips constructed of material that will permit nailing, shall be installed at the angle formed by intersection of vertical surface with roof. Cant Strip shall extend up the vertical surface approximately four (4) ins. and have an angle of forty-five (45) degrees



with the vertical. All measurements "Up" on the vertical surfaces and "Out" on the roof deck shall be made from line of intersection of cant with the vertical surface and the line of intersection of cant with the roof surface, respectively.

All Roofing Felts, Base Sheets and Cap Sheets shall be laid before the Flashing is applied and shall be brought up the face of cant and turned up two (2) ins. on, but not cemented to, all vertical surfaces to be flashed.

Flashing shall be installed before application of gravel, slag or tile to the roof surface.

Preparation of Surfaces to Be Flashing

All masonry surfaces to be flashed shall be coated with Bird Asphalt Primer and allowed to dry.

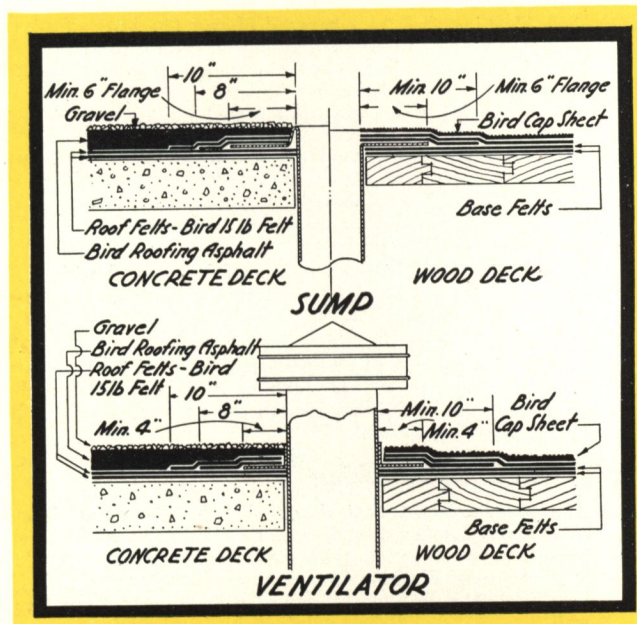
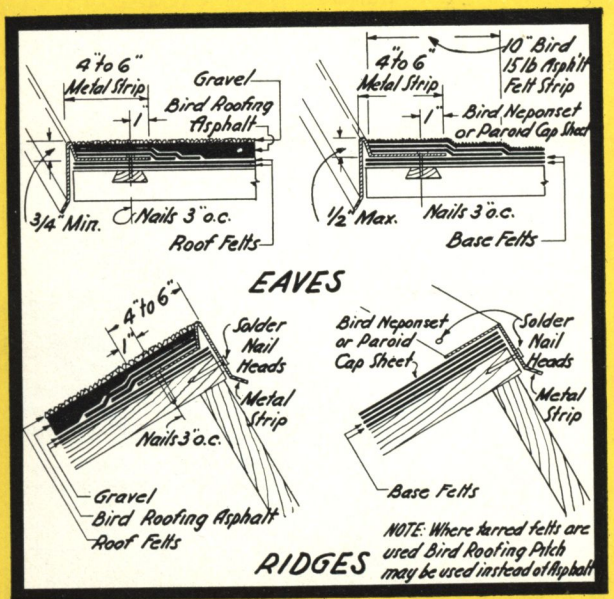
Application of Base Flashing

- (1) A layer of Bird Special Flashing Cement approximately one-eighth ($\frac{1}{8}$) in. thick shall be trowelled on the surface to receive the Flashing. The Flashing shall be carried at least ten (10) ins. high on the wall and four (4) ins. out on the roof.
- (2) A layer of Bird 15 lb. Asphalt Felt shall be embedded in the Bird Special Flashing Cement.
- (3) A second layer of Special Flashing Cement shall be applied to the Bird 15 lb. Asphalt Felt.
- (4) A second layer of Bird 15 lb. Asphalt Felt shall be embedded in the Special Flashing Cement, breaking joints with the previously applied felt.
- (5) The Flashing shall be finished by trowelling a third layer of Bird Special Flashing Cement over the surface of the Asphalt Felt, finishing to a feather edge and a straight line.

MISCELLANEOUS FLASHING DETAILS

The following details show standard construction for the finishing at Eaves, Ridges, and for Sump and Ventilator connections.

Specifications for Flanges and Edgings to meet special conditions will be furnished when requested.



INDEX TO SPECIFICATIONS BIRD BUILT-UP ROOFS

TERMS OF BOND	SPECIFICATION NUMBER	TYPE	PAGE NUMBER	ROOF DECK CONSTRUCTION	LIMITATIONS OF ROOF DECK SLOPE	TYPE OF SURFACE	Underwriter's Classification	MAKE-UP OF ROOF	NO. OF MOPPINGS	WEIGHT OF MATERIALS POUNDS PER SQUARE								TOTAL WEIGHT PER SQUARE		
										BASE SHEET	FELT	SHEATHING PAPER	ASPHALT OR PITCH	PRIMER	GRAVEL	SLAG	CAP SHEET	WITH CAP SHEET	GRAVEL SURFACED	SLAG SURFACED
GRAVEL OR SLAG SURFACE—FOR FLAT DECKS																				
20	101	515 AW	4	Wood or Precast Gypsum	¼-3	Gravel or Slag	A	5-15 lb. Asphalt Felts	4		78		150		400	300			628	528
20	102	415 AC	5	Concrete	¼-2		A	4-15 lb. Asphalt Felts	5		62		180	10	400	300			652	552
15	103	415 AW	6	Wood or Precast Gypsum	¼-3		A	4-15 lb. Asphalt Felts	3		62		120		400	300			582	482
15	104	315 AC	7	Concrete	¼-2		A	3-15 lb. Asphalt Felts	4		46		150	10	400	300			606	506
20	601	515 TW	4	Wood or Precast Gypsum	0-2		A	Sheathing and 5-15 lb. Tarred Felts	4		78	6	150		400	300			634	534
20	602	415 TC	5	Concrete	0-2		A	4-15 lb. Tarred Felts	5		62		180		400	300			642	542
15	603	415 TW	6	Wood or Precast Gypsum	0-2		A	Sheathing and 4-15 lb. Tarred Felts	3		62	6	120		400	300			588	488
15	604	315 TC	7	Concrete	0-2		A	3-15 lb. Tarred Felts	4		46		150		400	300			596	496

CRUSHED MINERAL SURFACE—FOR SLOPING AND STEEP DECKS

20	201	B 215 ANW	8	Wood or Precast Gypsum	1-6	White Mineral Granules	C 55 lb. Base; 2-15 lb. Asphalt Felts; Neponset (Selvage) Cap Sheet	4	55	31		120				88	294		
20	202	B 215 ANC	9	Concrete	1-6		C 45 lb. Base; 2-15 lb. Asphalt Felts; Neponset (Selvage) Cap Sheet	5	45	31		150	10			88	324		
15	203	B 15 ANW	10	Wood or Precast Gypsum	1-6		C 55 lb. Base; 1-15 lb. Asphalt Felt; Neponset (Selvage) Cap Sheet	3	55	15		90				88	248		
15	204	B 15 ANC	11	Concrete	1-6		C 45 lb. Base; 1-15 lb. Asphalt Felt; Neponset (Selvage) Cap Sheet	4	45	15		120	10			88	278		
10	205	215 ANW	12	Wood or Precast Gypsum	1-6		C 2-15 lb. Asphalt Felts; Neponset (Selvage) Cap Sheet	3		31		90				88	209		
10	206	215 ANC	13	Concrete	1-6		C 2-15 lb. Asphalt Felts; Neponset (Selvage) Cap Sheet	4		31		120	10			88	249		
10	207	BNW	14	Wood or Precast Gypsum	4-up		C 55 lb. Base; Neponset (Selvage) Cap Sheet	2	55			60				88	203		
10	208	BNC	15	Concrete	4-up		C 45 lb. Base; Neponset (Selvage) Cap Sheet	3	45			90	10			88	233		

ASBESTINE TALC SURFACE—FOR SLOPING AND STEEP DECKS

10	303	215 APW	16	Wood or Precast Gypsum	1-6	Asbestine Talc	C 2-15 lb. Asphalt Felts; Paroid (Selvage) Cap Sheet	3		31		90				55	176		
10	304	215 APC	17	Concrete	1-6		C 2-15 lb. Asphalt Felts; Paroid (Selvage) Cap Sheet	4		31		120	10			55	216		
10	301	BPW	18	Wood or Precast Gypsum	4-up		C 55 lb. Base; Paroid (Selvage) Cap Sheet	2	55			60				55	170		
10	302	BPC	19	Concrete	4-up		C 45 lb. Base; Paroid (Selvage) Cap Sheet	3	45			90	10			55	200		

ROOF INSULATION

	400		20	Wood or Precast Gypsum	Application of Roof Insulation for High and Low Humidity Conditions														
	401		21	Concrete	Application of Roof Insulation for High and Low Humidity Conditions														
	402		22	Steel	Application of Roof Insulation for High and Low Humidity Conditions														

FLASHINGS

	1		24	Base: Felts & Mineral Surface Roofing	Cap: Three Course Plastic	NOTE: Specifications for Flashings and Edgings to meet special conditions will be furnished when requested.
	2		24	Base: Felts & Mineral Surface Roofing	Cap: Cover Inside Face and Top of Wall	
	3		25	Base: Felts & Mineral Surface Roofing	Cap: Three Course Through Wall	
	4		26	5 Course Plastic		
	5		23	Metal Base and Cap		
	6		23	Raggle Block Type		

Specifications covering application of roofs over insulation are combined with specifications for application over concrete.

BIRD

BUILT-UP ROOFING



Digitized by:



ASSOCIATION
FOR
PRESERVATION
TECHNOLOGY,
INTERNATIONAL
www.apti.org

BUILDING
TECHNOLOGY
HERITAGE
LIBRARY

<https://archive.org/details/buildingtechnologyheritagelibrary>

From the collection of:
Robert Vail Cole Jr, AIA
1962 - 2011

BIRD

BUILT-UP ROOFING

